SAMSUNG

NOTE PC

SENS X10

SERVICE Manual

NOTE PC

CONTENTS

1 Specifications

2 고장의 수리(Trouble Shooting)

3 시스템 분해(The System Disassembly and Upgrade)

4 Main Board

5 Architectural Block Diagram

6 System Block Diagram

7 Schematic Diagrams and PCB SilkScreen

저작권(Copyright)

Copyright (c) 2003 SAMSUNG Electronics Co.,Ltd.
All rights reserved.
Under the copyright laws, this manual cannot be reproduced in any form without the prior written permission of SAMSUNG Electronics Co.,Ltd. No patent liability is assumed with respect to the use of the information contained herein.

저작권은 2003년 삼성전자에 의해 모든 판권이 소유되어 있다. 저작권법에 의해 삼성전자의 서면 동의 없는 매뉴얼의 복제는 할 수 없다. 매뉴얼에 포함된 정보의 사용에 관한 특허 책임은 없는 것으로 간주된다.

거부권(Disclaimer)

This information presented in this manual has reviewed and validated for accuracy. The included set of instructions and descriptions are corrected for the X10 Series at the time of this manual's production. However, succeeding computers and manuals are subject to change without notice. Therefore, SAMSUNG Electronics Co.,Ltd. assumes no liability for damages incurred directly or indirectly from errors, omissions, or discrepancies between any succeeding product and this manual.

본 매뉴얼에 있는 내용은 정확을 기하기 위해 재조사되고 확인되었다. 본 매뉴얼에 포함된 설명은 매뉴얼 제작 당시의 X10 시리즈에 맞도록 되어져 있다.
그러나 이후의 컴퓨터와 매뉴얼은 통보없이 변경될 수 있다. 그러므로 삼성전자는 직접 혹은 간접적인 오류에 의한 손상이나 제거 또는 이후의 제품과 매뉴얼의 불일치 등에 대한 책임이 없다.

등록상표 (Trademarks)

IBM PS/2,Personal System/2, MCA, Micro Channel, AT, XT, MDA, CGA, EGA, VGA are registered trademarks of International Business Machine Corporation.
MS-DOS and Windows are registered trademarks of Microsoft Corporation.
Pentium, PentiumPro, Pentium II, Pentium III and Pentium IV, is a registered trademark of Intel Corporation.
Phoenix is a registered trademark of Phoenix Corporation.
X10Series is a registered trademarks of SAMSUNG Electronics Co.,Ltd.

Table of Contents

1 Specifications **1-1**

1-1 Safety Precautions 1-1
- 1-1-1 Federal Communications Commission (FCC) Radio Frequency Interference Statement 1-1
- 1-1-2 Canadian Radio Interference Regulations 1-1
- 1-1-3 Important Safety Instructions 1-1

1-2 안전 주의사항(Safetly Precaution) 1-3
- 1-2-1 전자파 규격 1-3
- 1-2-2 LOGIC TEST시 주의사항 1-3
- 1-2-3 접지사항 1-3

1-3 ESD Precaution 1-3

1-4 System Specifications 1-4
- 1-4-1 Bundle List (Domestic) 1-8
- 1-4-2 NX10-CHN Accessory Bundle List 1-10
- 1-4-3 NX10-XSJ Accessory Bundle List 1-13
- 1-4-4 NX10-SHK Accessory Bundle List 1-14
- 1-4-5 NX10-EHQ Accessory Bundle List 1-17

2 고장의 수리(Trouble Shooting) **2-1**

2-1 일반적인 사항(The Conventional Information) 2-1
- 2-1-1 고장의 수리시 사용되는 Tool(Debugging Tools for Repairing the System) 2-1
- 2-1-2 교환 가능한 FRU(Field Replaceable Unit) 2-1

2-2 시스템진단(System Diagnosis) 2-2
- 2-2-1 시스템 진단 카드(System Diagnosis Card) 2-2
- 2-2-2 Debugging Codes 2-2
- 2-2-3 고장 증상별 고장 부위 및 체크 포인트(Trouble Shooting) 2-4

2-3 Debugging Flowchart 2-7

3 시스템분해(The System Disassembly and Upgrade) **3-1**

3-1 시스템 분해 하기(The System Disassembly) 3-1

3-2 시스템 내부 구성(The Structure of the System Inside) 3-4
- 3-2-1 컴퓨터 내부 명칭(The Name of the System Inside) 3-4

4 Main Board **4-1**

4-1 Main Board Design소개 4-1
- 4-1-1 목적(Purpose) 4-1
- 4-1-2 범주(Category) 4-1

4-2 System Specification 4-1
- 4-2-1 General Spec 4-1
- 4-2-2 IO Port 4-1
- 4-2-3 Detailed Specifications 4-2
- 4-2-4 DVD CD-RW ROM Drive 4-4
- 4-2-5 HDD 4-4
- 4-2-6 Battery Pack 4-5
- 4-2-7 AC Adapter 4-5

4-3 Electrical Specification 4-6
- 4-3-1 Power Plane Analysis 4-6

4-4 Exploded View and Mechnical Parts List 4-7
4-4-1 System Exploded_All 4-7
4-4-2 System Exploded_Housing_Bottom 4-9
4-4-3 System Exploded_LCD 4-12
4-4-4 System Exploded Top Ass'y 4-14
4-4-5 System Ass'y DVD Pack 4-17

5 Architectural Block Diagram 5-1

6 System Block Diagram 6-1

7 Schematic Diagrams and PCB SilkScreen 7-1
7-1 Main Board 7-1
7-1-1 Schematic Diagrams 7-1
7-1-2 Signal Location 7-40
7-1-3 Symbol Location 7-55
7-1-4 PCB SilkScreen 7-70
7-1-5 Parts List 7-72
7-2 DC/DC Board 7-113
7-2-1 Schematic Diagrams 7-113
7-2-2 PCB SilkScreen 7-116
7-2-3 Parts List 7-118
7-3 On-Top Board 7-120
7-3-1 Schematic Diagrams 7-120
7-3-2 PCB SilkScreen 7-122

1 Specifications

1-1 Safety Precautions

1-1-1 Federal Communications Commission (FCC) Radio Frequency Interference Statement

1-1-1(a) Warning

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. Only peripherals (system input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this system. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

1-1-1(b) Information to User

This equipment generates and uses radio frequency energy and if not installed and used properly , that is, in strict accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Re-orient the receiving antenna.
2. Relocate the system with respect to the receiver.
3. Plug the system into a different outlet so that the system and receiver are on different branch circuits.
4. Move the cables connected to the system to minimize the interference.
5. Tighten all cable screws.

If necessary, the user should consult the dealer or an experienced radio/televsion technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Samsung Electronics Co., LTD. is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Samsung Electronics Co., LTD. The correction will be the responsibility of the user. Use only shielded data cables with this system.

1-1-2 Canadian Radio Interference Regulations

This apparatus does not exceed the class B limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le prèsent appareil n'émet pas de bruits radioèlectriques dépassant les limites applicable aux appareils digitals de la classe B prescrites par le réglement de brouillage radioélec trique dicté par le Ministére des Communications du Canada.

1-1-3 Important Safety Instructions

Read all instructions.

1. Do not use this product near water .
2. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
3. Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered by a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
4. Do not place this product in a location where the cord may be tripped on.
5. Select a work surface that is large enough to hold the X10 equipment and any additional items required for your work.
6. Do not allow the battery to be exposed to direct sunlight for extended periods of time.
7. Do not allow anything to rest on the power cord.

8. Never push objects of any kind into this product through the cabinet slots, as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
9. If the product is dropped, the cabinet may be damaged.
10. Do not install or remove the detachable hard disk drive with the system turned on.
11. It indicates a need for service that the product exhibits a distinct change in peformance.
12. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth and ISO-prophyl alcohol for cleaning.
13. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
14. If an extension cord is used with this product, make sure it is a 3-pronged, grounded cord and that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
15. NiMH batteries must be recycled or disposed of properly.
16. Do not attempt to disassemble the battery. The electrolyte contained within it is highly toxic and might cause injury to skin or eyes.
17. Charge the battery only as described in this document.
18. Do not short circuit the battery terminals as the resulting high currents can damage the battery.
19. The battery should not be used to power other products.
20. Do not dispose of a used battery in a fire or incinerator.
21. Do not subject the battery to extreme temperature. Battery temperature should be greater than -20°C(-4°F) and less than +50°C (122°F).
22. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    - When the power cord or plug is damaged or frayed.
    - If liquid has been spilled into the product.
    - If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage.

1-2 안전 주의사항(Safety Precaution)

1-2-1 전자파 규격

이 시스템은 비 업무용으로 전자파 적합등록을 받은 기기로서 주거 지역에서는 물론 모든 지역에서 사용할 수 있다.

1-2-2 LOGIC TEST시 주의사항

본 기기에 사용되는 LSI, MSI는 MOS-FET 또는 CMOS를 기본소자로 하는 반도체 집적회로이다. 이런 종류의 소자는 정전기나 누설전류에 대단히 약하여 절연파괴를 일으키기 쉬우므로 아래의 주의사항을 잘 읽어보고 올바르게 취급해야 한다.

1. LSI나 MSI를 취급할 때에는 인체를 수 메가옴의 저항을 통하여 접지시켜야 한다. 또, 작업자의 장갑이나 상의등은 정전기가 발생되기 쉬운 화학섬유등을 가급적 피하고 면제품을 착용해야 한다.
2. 수리할때에는 작업대위에 접지가 되어있는 도전체(알루미늄등)를 놓아두어야 한다.
3. 인두는 누설 전류가 없는 것을 사용해야 한다.
4. IC는 PIN에 직접 접촉하는 일이 없도록 하고 검은색의 PLASTIC 부분을 잡고 PCB에 삽입한다.
5. PCB에 삽입할 경우 IC의 방향을 정확하게 해야 한다. 틀리게 삽입할 경우 파괴되는 경우가 있으므로 주의하여야 한다.
6. IC를 운반할 때에는 알루미늄 박지에 포장하거나 도전성 스폰지에 넣되 각 단자는 등전위가 되도록 유지해야 한다.
7. IC의 보존온도는 -20~+70도 이므로 될수 있으면 상온에서 보관해야 한다.
8. PCB에서 소자를 넣고 빼거나 BOARD를 넣고 뺄때는 반드시 전원을 차단한 후 작업하여야 한다.
9. IC를 납땜할 때에는 필요 이상의 열을 가하지 말고 단시간 내에 납땜하여야 한다.
10. CUSTOM IC를 납땜할 때에는 FLUX가 CUSTOM IC안이나 PIN과 PIN사이에 너무 많이 들어가지 않도록 주의해야 한다.
11. OPTION BOARD를 장착 또는 탈착시 BOARD에 손상이 가지 않도록 주의해야 한다.
12. IC를 뺄때 PCB의 PATTERN이 떨어지는 경우가 있으니 주의하여야 한다.

1-2-3 접지사항

정전기 및 기타 위험으로부터 보호를 하기 위해서는 접지가 절대로 필요하다. 멀티탭을 사용하는 경우, 접지 단자가 없는 제품이 있으므로 확인후 사용하여야 한다.
220V 콘센트에 접지단자(접속 스프링)가 있는 경우에는 별도의 접지가 필요하지 않다. 간혹 콘센트에 접지단자가 있으나 내부에 접지배선이 되어있지 않을 경우가 있으니 이러한 콘센트는 사용을 금해야 한다.

접지는 전용 접지구나 금속수도관을 사용한다. 접지선을 본체 뒷면의 접지단자에 연결한다. 금속수도관, 콘센트및 별도로 제작된 접지구에 #18이상의 굵기를 가진 전선으로 연결하면 된다.

PVC수도관, 전화선, TV, 라디오 안테나, 알미늄창, 가스관등과 같은 곳에 설치할 때에는 접지가 되지 않거나 매우 위험하므로 절대로 삼가해야 한다.

1-3 ESD Precaution

이 시스템의 많은 Assembly들은 정전기에 의해 손상될 수 있는 부품들을 사용한다. Electro Static Discharge(ESD)장비의 사용은 사용자와 사용자 주위의 안전을 위해 매우 중요하다. 이 장치의 사용은 수리의 성공율을 높이고 손상되거나 파괴된 부품에 대한 비용을 낮춘다. 이러한 문제를 해결하기 위해서는 다음의 단계를 따른다.

1. 정전기가 없는 지역에서 작업한다.
2. Assembly들을 취급하기 전에 Ground에 연결되어 있는 금속의 수도관이나 비슷한 것을 접촉하여 몸에 있는 정전기를 방전한다.
3. 가능한 한 보드의 가장자리만 취급한다.
4. 꼭 필요하다고 판단되는 경우가 아니면 부품에 접촉하지 않는다.
5. Assembly들을 분해하는 경우 정전기 방지 Pad위에서 한다.
6. 시스템에 설치하지 않는 보드는 정전기 보호용 포장을 한다.

1-4 System Specifications

Descriptions	Requirements	Remarks
Processor and Core Logic		
Processor Options	Intel Banias Processor, including support for SpeedStep.	Support 24.5W TDP
Processor Package Type	µFCBGA	
Cache Memory	1MB on-die Level2 cache	
Core Logic	Intel Odem and ICH4M	
Bus Speed	400MHz PSB	
System Memory		
RAM Type	200/266MHz DDR-DRAM 128,256, 512 & 1GB memory supported in any combination	
On-Board Memory	None	
Memory Expansion Options	2 SODIMM socket (Max 2GB)	
LCD Display Panel		
LCD Panel	14.1" XGA TFT LCD	
Max. Panel Resolutions & Color Depth	up to 1024x768, 32bit	
Video		
Graphics Controller	Nvidia GeForce4 420 Go 32M GeForce4 440 Go 64M	
Video Interface	4x AGP	
Video Memory	Integrated 32MB & 64MB DDR	
External Video	Supports simultaneous LCD / External monitor	
External CRT Resolutions & Color Depth	Up to 1600 x 1200 Pixels, Support 16.7M colors UXGA, SXGA (external CRT Only), XGA, SVGA, VGA	
Maximum Refresh Rate	100Hz upto UXGA	
Communication		
Integrated Modem	Built-in Modem (MDC) AC-97 Compliant Modem Controller	

Descriptions	Requirements	Remarks
Integrated LAN	Built-in LAN, 3COM (10/100 Base-T)	
Mini-PCI type Wireless LAN	Mini PCI type, 802.11b / 802.11a+ b Combo	Factory Option
Bluetooth	Bluetooth Module	Factory Option,
802.11b+Bluetooth Combo	Mini PCI type, 802.11b+BT Combo	Factory Option,
CDMA Wireless Modem	None	
GPRS Wireless Modem	None	
Sound		
Audio Chipset	Cirrus CS4202	
Sound feature	AC-97 Compliant Audio	
Audio jack and Control buttons	-Volume up/down/mute by Hot keys -2x Stereo speaker built-in. -Mono Microphone-in / SPDIF(Optical Type) / Line-out (all 1/8" mini-jack)	
Storage		
Hard Disk Drive	30GB, 40GB, 60GB & 80GB Support 9.5mm-thick, 2.5" form factors	Factory Option
IDE Controller	Two Independent bus-mastering Enhanced IDE channels Supports Ultra DMA, DMA Mode 2, PIO Mode 4	
Optical Device	Fixed Ultra Slim DVD-RW Combo (9.5mm Height)	
User Interface		
Keyboard	88-keys Korean / US, 89Keys European US / French / German / UK / Japan / Spain / China 2.4mm Travel Length, 19mm pitch IBM style layout	
Pointing Device	Touch Pad with Wheel or Finger Printer	
Finger Print	USB interface, joined to Touch Pad	Factory option
Status LED	Top front 2 LED's (Power / Charge Status /) 4 LED's (HDD, Caps, Num, Scroll)	
Button	Power ON Easy Button 3EA(Internet, E-mail, User define1) B.T(BLUETOOTH Button) on-off or User define2	B.T is Factory option

Descriptions	Requirements	Remarks
Expansion and I/O Ports		
PC Card Support	RICOH R5C590 RICOH R5C590 CardBus/IEEE1394 and Memory Stick Controller PC Card (16bt) or CardBus (32bit) slot PCI bus-IEEE 1394 OHCI bridge 1 Type II Slot(Support the type I or type II)	
Super IO Controller	None	Port Replicator
I/O Ports & Connectors	USB x2 IEEE1394 (4p) RJ11 (Modem) RJ45 (LAN) DC input PCMCIA XGA/SVGA/VGA external monitor connector SVHS TV-Out Mic-in, SPDIF, Line-out MEMORY STICK(4, 16, 32, 64 & 128MB Support)	Memory Stick is Factory Option
Port Replicator(TBD)		
Port replicator(TBD)	PIO, SIO, PS/2 x 2, LAN, USB X2, TYPE B USB X 2 FOR DATA LINK	
Power Management		
AC Adapter	19VDC, 60W output Automatic voltage selection 100 / 240VAC; 50/60Hz	
Main Battery	Small : 3cell (24~27W) Standard : 6cell (48~54W)	
Power Management	Compliant ACPI V1.0b (S0, S3, S4, S5)	
Display Controls	8 levels Panel brightness, battery gauge display	By Keyboard combination
Power Button	On/Off or Suspend/Resume configurable	
Passwords	Power-on password (2-level password support)	

Descriptions	Requirements	Remarks
Software		
Operating System Options	Windows XP Pro/ home with SP1 Windows 2000 with SP3 Windows 98 SE (Driver only)	
System Management	ACPI 1.0b and 2.0 SMBIOS DMI WHQL (all defined operating systems) latest test kit.	
MICOM	Hitachi HD64F2169	

1-4-1 Bundle List(Domestic)

품 목	OS : WINXP_H			DVD RW											
	Rev.	수량	CODE	03861A	03862A	03863A	03864A	03877A	03878A	03879A	03880A	03869A	03870A	03871A	03872A
시스템 복원 CD	1.0	1	BA46-02323A	○	○	○	○	○	○	○	○	○	○	○	○
UTILTY CD	1.0	1	BA46-02414A	○	○	○	○	○	○	○	○	○	○	○	○
POWER DVD S/W CD	1.0	1	BA46-02460A	○	○	○	○	○	○	○	○	○	○	○	○
MGI Video Wave4 (XP용)	1.6	1	BA46-01289A	×	×	×	×	×	×	×	×	○	○	○	○
훈민오피스 i CD	1.1	1	BA46-01185A	○	○	○	○	○	○	○	○	○	○	○	○
훈민오피스 i 매뉴얼	1.0	1	BA68-01373A	○	○	○	○	○	○	○	○	○	○	○	○
SX10 사용설명서	1.0	1	BA68-02011A	○	○	○	○	○	○	○	○	○	○	○	○
자이젠 안내 가이드	1.1	1	BA68-01367A	×	×	×	×	×	×	×	×	○	○	○	○
WINXP_HOME 사용자 설명서	1.0	1	BA68-01511A	○	○	○	○	○	○	○	○	○	○	○	○
PL 매뉴얼	1.0	1	BA68-01796A	○	○	○	○	○	○	○	○	○	○	○	○
POWER CORD		1	BA39-10006P	○	○	○	○	○	○	○	○	○	○	○	○
Finger Print S/W CD 4.3.1	3.0	1	BA46-01828A	○	○	×	×	○	○	×	×	○	○	×	×
Finger Print MANUAL <국판>	2.0	1	BA68-01662A	○	○	×	×	○	○	×	×	○	○	×	×
BLUE TOOTH MANUAL	1.0	1	BA68-01782B	×	○	×	○	×	○	×	○	×	○	×	○
BLUE TOOTH S/W CD	1.1	1	BA46-01940A	×	○	×	○	×	○	×	○	×	○	×	○
BAG	1.0	1	BA69-00506A	○	○	○	○	×	×	×	×	×	×	×	×
COUPON	1.0	1	6801-01140	×	×	×	×	×	×	×	×	○	○	○	○

품 목	OS : WINXP_P			DVD RW											
	Rev.	수량	CODE	03861A	03862A	03863A	03864A	03877A	03878A	03879A	03880A	03869A	03870A	03871A	03872A
시스템 복원 CD	1.0	1	BA46-02335A	○	○	○	○	○	○	○	○	○	○	○	○
UTILTY CD	1.0	1	BA46-02414A	○	○	○	○	○	○	○	○	○	○	○	○
POWER DVD S/W CD	1.0	1	BA46-02460A	○	○	○	○	○	○	○	○	○	○	○	○
MGI Video Wave4 (XP용)	1.6	1	BA46-01289A	×	×	×	×	×	×	×	×	○	○	○	○
훈민오피스 i CD	1.1	1	BA46-01185A	○	○	○	○	○	○	○	○	○	○	○	○
훈민오피스 i 매뉴얼	1.0	1	BA68-01373A	○	○	○	○	○	○	○	○	○	○	○	○
SX10 사용설명서	1.0	1	BA68-02011A	○	○	○	○	○	○	○	○	○	○	○	○
자이젠 안내 가이드	1.0	1	BA68-01367A	×	×	×	×	×	×	×	×	○	○	○	○
WINXP_PRO 사용자 설명서	1.0	1	BA68-01510A	○	○	○	○	○	○	○	○	○	○	○	○
PL 매뉴얼	1.0	1	BA68-01796A	○	○	○	○	○	○	○	○	○	○	○	○
POWER CORD		1	BA39-10006P	○	○	○	○	○	○	○	○	○	○	○	○
Finger Print S/W CD 4.3.1	3.0	1	BA46-02411A	○	○	×	×	○	○	×	×	○	○	×	×
Finger Print MANUAL <국판>	2.0	1	BA68-01662A	○	○	×	×	○	○	×	×	○	○	×	×
BLUE TOOTH MANUAL	1.0	1	BA68-01782B	×	○	×	○	×	○	×	○	×	○	×	○
BLUE TOOTH S/W CD	1.1	1	BA46-01940A	×	○	×	○	×	○	×	○	×	○	×	○
BAG	1.0	1	BA69-00506A	○	○	○	○	×	×	×	×	×	×	×	×
COUPON	1.0	1	6801-01140	×	×	×	×	×	×	×	×	○	○	○	○

1-4-2 NX10-CHN ACCESSORY BUNDLE LIST

NX10-CHN	WINXP_HOME(CHS)		DVD RW			
ITEM	CODE	Rev.	03920A	03921A	03922A	03923A
Recovery CD	BA46-02330A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	1.0	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00264A		O	O	O	O
USER-MANULA	BA68-02008A	1.0	O	O	O	O
OS-MANUAL(XP_H)	B A68-60032A	1.0	O	O	O	O
Finger Print S/W CD	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
Warranty Information	BA68-60045A		O	O	O	O
Warranty Envelope	BA68-60054A		O	O	O	O
Blue Tooth MANUAL	BA68-01782B		O	X	O	X
Blue Tooth S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-CHN	WINXP_PRO(CHS)		DVD RW			
ITEM	CODE	Rev.	03920A	03921A	03922A	03923A
Recovery CD	BA46-02331A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	1.0	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00264A		O	O	O	O
USER-MANULA	BA68-02008A	1.0	O	O	O	O
OS-MANUAL(XP_P)	BA68-60040A	1.0	O	O	O	O
Finger Print S/W CD	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
Warranty Information	BA68-60045A		O	O	O	O
Warranty Envelope	BA68-60054A		O	O	O	O
Blue Tooth MANUAL	BA68-01782B		O	X	O	X
Blue Tooth S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-CHN	WIN2000K(CHS)		DVDRW			
ITEM	CODE	Rev.	03920A	03921A	03922A	03923A
Recovery CD	BA46-02218A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	1.0	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00264A		O	O	O	O
USER-MANULA	BA68-02008A	1.0	O	O	O	O
OS-MANUAL(W2K)	BA68-01501A	1.0	O	O	O	O
Finger Print S/W CD	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
Warranty Information	BA68-60045A		O	O	O	O
Warranty Envelope	BA68-60054A		O	O	O	O
Blue Tooth MANUAL	BA68-01782B		O	X	O	X
Blue Tooth S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

1-4-3 NX10-XSJ ACCESSORY BUNDLE LIST

NX10-XSJ	WINXP_HOME(JPN)		DVD RW
ITEM	CODE	Rev.	04005A
Recovery CD	BA46-02313A	1.0	O
Utility CD	BA46-02468A	1.0	O
POWER DVD S/W	BA46-02460A	1.0	O
MGI Video Wave 4.0	BA46-10051N	1.1	O
Nero Burnning CD	BA96-01839A	1.0	O
POWER CORD	BA39-10006Q		O
USER-MANULA	BA68-02010A	1.0	O
OS-MANUAL(XP_H)	BA68-60012A	1.0	O
TELE-LINE	BA39-30006N		O
SPDIF CABLE	BA39-40001A		O
BOX	BA69-00473C		O

NX10-XSJ	WINXP_PRO(JPN)		DVD RW
ITEM	CODE	Rev.	04006A
Recovery CD	BA46-02327A	1.0	O
Utility CD	BA46-02468A	1.0	O
POWER DVD S/W	BA46-02460A	1.0	O
MGI Video Wave 4.0	BA46-10051N	1.1	O
Nero Burnning CD	BA96-01839A	1.0	O
POWER CORD	BA39-10006Q		O
USER-MANULA	BA68-02010A	1.0	O
OS-MANUAL(XP_P)	BA68-60035A	1.0	O
TELE-LINE	BA39-30006N		O
SPDIF CABLE	BA39-40001A		O
BOX	BA69-00473C		O

1-4-4 NX10-SHK ACCESSORY BUNDLE LIST

NX10-SHK	WINXP_HOME(CHT)		RW-COMBO			
ITEM	CODE	Rev.	03980A	03981A	03982A	03983A
Recovery CD	BA46-02328A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	2.2	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00051A		O	O	O	O
USER-MANULA	BA68-02009A	1.0	O	O	O	O
OS-MANUAL(XP_H)	BA68-60033A	1.0	O	O	O	O
Finger Print S/W 4.3.1	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
BLUETOOTH MANUAL	BA68-01782B		O	X	O	X
BLUETOOTH S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-SHK	WINXP_HOME(ENG)		RW-COMBO			
ITEM	CODE	Rev.	03984A	03985A	03986A	03987A
Recovery CD	BA46-02322A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	1.0	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.0	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00051A		O	O	O	O
USER-MANULA	BA68-02008A	1.0	O	O	O	O
OS-MANUAL(XP_H)	BA68-60013A	1.0	O	O	O	O
Finger Print S/W 4.3.1	BA46-02411A	1.0	O	X	O	O
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
BLUETOOTH MANUAL	BA68-01782B		O	X	O	X
BLUETOOTH S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-SHK	WINXP_PRO(CHT)		RW-COMBO			
ITEM	CODE	Rev.	03988A	03989A	03990A	03991A
Recovery CD	BA46-02329A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	1.0	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00051A		O	O	O	O
USER-MANULA	BA68-02009A	1.0	O	O	O	O
OS-MANUAL(XP_P)	BA68-60041A	1.0	O	O	O	O
Finger Print S/W 4.3.1	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
BLUETOOTH MANUAL	BA68-01782B		O	X	O	X
BLUETOOTH S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-SHK	WINXP_PRO(ENG)		RW-COMBO			
ITEM	CODE	Rev.	03992A	03993A	03994A	03995A
Recovery CD	BA46-02324A	1.0	O	O	O	O
Utility CD	BA46-02468A	1.0	O	O	O	O
POWER DVD S/W	BA46-02460A	1.0	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01839A	1.0	O	O	O	O
POWER CORD	BA39-00051A		O	O	O	O
USER-MANULA	BA68-02009A	1.0	O	O	O	O
OS-MANUAL(XP_P)	BA68-60037A	1.0	O	O	O	O
Finger Print S/W 4.3.1	BA46-02411A	3.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
BLUETOOTH MANUAL	BA68-01782B		O	X	O	X
BLUETOOTH S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-SHK	WIN 2000K(ENG)		RW-COMBO			
ITEM	CODE	Rev.	03996A	03997A	03998A	03999A
Recovery CD	BA46-02217A	1.0	O	O	O	O
Utility CD	BA46-01853A	1.0	O	O	O	O
POWER DVD S/W	BA46-00410A	2.2	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01168A	1.2	O	O	O	O
POWER CORD	BA39-00051A		O	O	O	O
USER-MANULA	BA68-02009A	1.0	O	O	O	O
OS-MANUAL(WIN 2000)	BA68-01410A	1.0	O	O	O	O
Finger Print S/W	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
BLUETOOTH MANUAL	BA68-01782B		O	X	O	X
BLUETOOTH S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

NX10-SHK	WIN 2000K(ENG)		RW-COMBO			
ITEM	CODE	Rev.	04001A	04002A	04003A	04004A
Recovery CD	BA46-02217A	1.0	O	O	O	O
Utility CD	BA46-01853A	1.0	O	O	O	O
POWER DVD S/W	BA46-00410A	2.2	O	O	O	O
MGI Video Wave 4.0	BA46-10051N	1.1	O	O	O	O
Nero Burnning CD	BA96-01168A	1.2	O	O	O	O
POWER CORD	BA39-00051A		O	O	O	O
USER-MANULA	BA68-01698A	1.0	O	O	O	O
OS-MANUAL(WIN 2000)	BA68-00680A	1.0	O	O	O	O
Finger Print S/W 4.3.1	BA46-02411A	1.0	O	O	X	X
TELE-LINE	BA44-00029A		O	O	O	O
SPDIF CABLE	BA39-40001A		O	O	O	O
BLUETOOTH MANUAL	BA68-01782B		O	X	O	X
BLUETOOTH S/W CD	BA46-01940A		O	X	O	X
BOX	BA69-00473C		O	O	O	O

1-4-5 NX10-EHQ ACCESSORY BUNDLE LIST

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	03932A	03933A	03934A	03935A	
ITEM	UK	UK	UK	UK	Rev.
Recovery CD	BA46-02321A	BA46-02321A	BA46-02321A	BA46-02321A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-00051A	BA39-00051A	BA39-00051A	BA39-00051A	
TELE-LINE	BA44-00132A	BA44-00132A	BA44-00132A	BA44-00132A	
OS MANUAL(XP_H)	BA68-60013A	BA68-60013A	BA68-60013A	BA68-60013A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	03936A	03937A	03938A	03939A	
ITEM	GR	GR	GR	GR	Rev.
Recovery CD	BA46-02317A	BA46-02317A	BA46-02317A	BA46-02317A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.2
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00133A	BA44-00133A	BA44-00133A	BA44-00133A	
OS MANUAL(XP_H)	BA68-60030A	BA68-60030A	BA68-60030A	BA68-60030A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	03940A	03941A	03942A	03943A	
ITEM	FR	FR	FR	FR	Rev.
Recovery CD	BA46-02315A	BA46-02315A	BA46-02315A	BA46-02315A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00131A	BA44-00131A	BA44-00131A	BA44-00131A	
OS MANUAL(XP_H)	BA68-60031A	BA68-60031A	BA68-60031A	BA68-60031A	
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	03944A	03945A	03946A	03947A	
ITEM	SP	SP	SP	SP	Rev.
Recovery CD	BA46-02332A	BA46-02332A	BA46-02332A	BA46-02332A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.0
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.2
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA39-00061A	BA39-00061A	BA39-00061A	BA39-00061A	
OS MANUAL(XP_H)	BA68-01884A	BA68-01884A	BA68-01884A	BA68-01884A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	BA68-01782A	BA68-01782A	BA68-01782A	
BLUETOOTH S/W CD	BA46-01940A	BA46-01940A	BA46-01940A	BA46-01940A	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	04007A	04008A	04011A	04012A	
ITEM	UK	UK	UK	UK	Rev.
Recovery CD	BA46-02321A	BA46-02321A	BA46-02321A	BA46-02321A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-00051A	BA39-00051A	BA39-00051A	BA39-00051A	
TELE-LINE	BA44-00132A	BA44-00132A	BA44-00132A	BA44-00132A	
OS MANUAL(XP_H)	BA68-60013A	BA68-60013A	BA68-60013A	BA68-60013A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
WORK SUITE	BA96-01324A	BA96-01324A	BA96-01324A	BA96-01324A	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	04013A	04014A	04015A	04016A	
ITEM	GR	GR	GR	GR	Rev.
Recovery CD	BA46-02317A	BA46-02317A	BA46-02317A	BA46-02317A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.2
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00133A	BA44-00133A	BA44-00133A	BA44-00133A	
OS MANUAL(XP_H)	BA68-60030A	BA68-60030A	BA68-60030A	BA68-60030A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
WORK SUITE	BA96-01325A	BA96-01325A	BA96-01325A	BA96-01325A	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE	04017A	04018A	04019A	04020A	
ITEM	FR	FR	FR	FR	Rev.
Recovery CD	BA46-02315A	BA46-02315A	BA46-02315A	BA46-02315A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00131A	BA44-00131A	BA44-00131A	BA44-00131A	
OS MANUAL(XP_H)	BA68-60031A	BA68-60031A	BA68-60031A	BA68-60031A	
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
WORK SUITE	BA96-01326A	BA96-01326A	BA96-01326A	BA96-01326A	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_HOME)				
ASSY CODE					
ITEM	SP	SP	SP	SP	Rev.
Recovery CD	BA46-02332A	BA46-02332A	BA46-02332A	BA46-02332A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.2
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00133A			BA44-00133A	
OS MANUAL(XP_H)	BA68-01884A	BA68-01884A	BA68-01884A	BA68-01884A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
WORK SUITE					
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_PRO)				
ASSY CODE	03948A	03949A	03950A	03951A	
ITEM	UK	UK	UK	UK	Rev.
Recovery CD	BA46-02320A	BA46-02320A	BA46-02320A	BA46-02320A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-00051A	BA39-00051A	BA39-00051A	BA39-00051A	
TELE-LINE	BA44-00132A	BA44-00132A	BA44-00132A	BA44-00132A	
OS MANUAL(XP_P)	BA68-60037A	BA68-60037A	BA68-60037A	BA68-60037A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_PRO)				
ASSY CODE	03952A	03953A	03954A	03955A	
ITEM	GR	GR	GR	GR	Rev.
Recovery CD	BA46-02316A	BA46-02316A	BA46-02316A	BA46-02316A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00133A	BA44-00133A	BA44-00133A	BA44-00133A	
OS MANUAL(XP_P)	BA68-60038A	BA68-60038A	BA68-60038A	BA68-60038A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_PRO)				
ASSY CODE	03956A	03957A	03958A	03959A	
ITEM	FR	FR	FR	FR	Rev.
Recovery CD	BA46-02314A	BA46-02314A	BA46-02314A	BA46-02314A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00131A	BA44-00131A	BA44-00131A	BA44-00131A	
OS MANUAL(XP_P)	BA68-60039A	BA68-60039A	BA68-60039A	BA68-60039A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WINXP_PRO)				
ASSY CODE	03960A	03961A	03962A	03963A	
ITEM	SP	SP	SP	SP	Rev.
Recovery CD	BA46-02333A	BA46-02333A	BA46-02333A	BA46-02333A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA39-00061A	BA39-00061A	BA39-00061A	BA39-00061A	
OS MANUAL(XP_P)	BA68-01885A	BA68-01885A	BA68-01885A	BA68-01885A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WIN 2000K)				
ASSY CODE	03964A	03965A	03966A	03967A	
ITEM	UK	UK	UK	UK	Rev.
Recovery CD	BA46-02214A	BA46-02214A	BA46-02214A	BA46-02214A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-00051A	BA39-00051A	BA39-00051A	BA39-00051A	
TELE-LINE	BA44-00132A	BA44-00132A	BA44-00132A	BA44-00132A	
OS MANUAL(XP_P)	BA68-00680A	BA68-00680A	BA68-00680A	BA68-00680A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WIN 2000K)				
ASSY CODE	03968A	03969A	03970A	03971A	
ITEM	GR	GR	GR	GR	Rev.
Recovery CD	BA46-02216A	BA46-02216A	BA46-02216A	BA46-02216A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	2.2
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00133A	BA44-00133A	BA44-00133A	BA44-00133A	
OS MANUAL(XP_P)	BA68-00682A	BA68-00682A	BA68-00682A	BA68-00682A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WIN 2000K)				
ASSY CODE	03972A	03973A	03974A	03975A	
ITEM	FR	FR	FR	FR	Rev.
Recovery CD	BA46-02215A	BA46-02215A	BA46-02215A	BA46-02215A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA44-00131A	BA44-00131A	BA44-00131A	BA44-00131A	
OS MANUAL(WIN 2000)	BA68-00681A	BA68-00681A	BA68-00681A	BA68-00681A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

NX10-EHQ	RW-Combo (OS : WIN 2000K)				
ASSY CODE	03976A	03977A	03978A	03979A	
ITEM	SP	SP	SP	SP	Rev.
Recovery CD	BA46-02221A	BA46-02221A	BA46-02221A	BA46-02221A	1.0
Utility CD	BA46-02468A	BA46-02468A	BA46-02468A	BA46-02468A	1.0
POWER DVD S/W	BA46-02460A	BA46-02460A	BA46-02460A	BA46-02460A	1.0
MGI Video Wave 4.0	BA46-10051N	BA46-10051N	BA46-10051N	BA46-10051N	1.1
Nero Burnning CD	BA96-01839A	BA96-01839A	BA96-01839A	BA96-01839A	1.0
POWER CORD	BA39-10006R	BA39-10006R	BA39-10006R	BA39-10006R	
TELE-LINE	BA39-00061A	BA39-00061A	BA39-00061A	BA39-00061A	
OS MANUAL(WIN 2000)	BA68-01886A	BA68-01886A	BA68-01886A	BA68-01886A	1.0
Warranty Information	BA68-01707A	BA68-01707A	BA68-01707A	BA68-01707A	1.1
Finger Print S/W	BA46-02411A	BA46-02411A	X	X	1.0
SPDIF CABLE	BA39-40001A	BA39-40001A	BA39-40001A	BA39-40001A	1.0
BLUETOOTH MANUAL	BA68-01782A	X	BA68-01782A	X	
BLUETOOTH S/W CD	BA46-01940A	X	BA46-01940A	X	
BOX	BA69-00473C	BA69-00473C	BA69-00473C	BA69-00473C	

2 고장의 수리(Trouble Shooting)

이 Section은 어느 FRU(Field Replaceable Unit)나 부품이 시스템 오 동작의 원인인지를 어떻게 결정하는지에 대해 기술하고 있다.
This Section gives you the information how to find causes of the improper working of the system.

2-1 일반적인 사항(The Conventional Information)

2-1-1 고장의 수리시 사용되는 Tool (Debugging Tools for Repairing the System)

시스템 고장의 수리를 하기 위해 필요한 도구들은 다음과 같다.
The following are the tools for repair.

1. 시스템 진단 디스크(System Diagnosis Disk)
2. MS-DOS 시스템 디스크(MS-DOS Bootable Disk)
3. 시스템 진단 카드(System Diagnosis Card into Mini PCI Slot)
4. Hexagon 드라이버(Hexagon Driver)
5. 플러스, 마이너스 드라이버(Plus, Minus Driver)
6. Pin set
7. Multimeter
8. 아날로그 또는 디지타이징 오실로스코프(Analog or Digitiging Osilliscope)
9. Logic Analyzer

2-1-2 교환 가능한 FRU (Field Replaceable Units)

모듈 단위의 서비스에 교환 가능한 FRU에는 다음과 같은 것들이 있다.
The following are the replaceable module units, called FRU, for After Service

NO	자재名	Code No	NO	자재名	Code No
1	Mother B'd	BA92-01773A	14	Memory	1105-001435
2	Adapter AD-6019	BA44-00123A	15	HDD	BA59-00791A
3	Ass'y DC/DC Converter	BA96-01460A	16	Audio Cable	BA39-00337A
4	Unit-Housing Front	BA75-00951A	17	LCD I/F Cable	BA39-00336A
5	Key Board	BA59-00968C	18	Audio Board	BA92-01945B
6	DVD Combo	BA59-01058A	19	Heak Sink	BA62-00213A
7	LCD Panel	BA59-00910A	20	HDD FPC Cable	BA41-00328A
8	Li-Ion Battery	BA43-00084A	21	MDC-MODEM	BA59-00812A
9	Unit-Housing Back LCD	BA75-00948A	22	MDC-MODEM Cable	BA39-00338A
10	Unit-Housing Bottom	BA75-00949B	24	Fan	BA31-00007A
11	Unit-Housing Top	BA75-00950A	25	Antenna	BA42-00028A
12	Unit-Cap-Front	BA75-00958A	26	Antenna	BA42-00027A
13	Module-Wlan	BA59-01038A			

2-2 시스템 진단(SYSTEM DIAGNOSIS)

2-2-1 시스템 진단 카드 (SYSTEM DIAGNOSIS CARD)

진단 카드는 MINI PCI 슬롯에 삽입하여 POST(Power On Self Test)동안 시스템의 동작 상태를 2자리 숫자의 16진수값으로 나타낸다. 시스템의 동작에 이상이 있다고 판단되는 경우 시스템을 분해하지 않고 이상 동작의 원인을 파악하거나 원인으로 판단되는 FRU를 교환한뒤 시스템이 정상적으로 동작하는지 시험하는데 사용된다.
Pushing the diagnosis card into the NIMI PCI Slot, the working status of the system is displayed by hexadecimal codes on the seven segment during the post. If the system is working improporly, it is used to test that the system is working in the propoer way after replacing the FRU caused system down or diagnosing the causes of the improper working without taking apart the system.

2-2-2 Debugging Codes

일반적으로 시스템 테스트 중에 회로 이상이나 부품 이상이 발견되면 특정Code에서 시스템이 정지한다. 다음은 각 시스템 보드의 에러에 대한 Debugging Code이다.
If there is something wrong with the system, which can be circuit or parts, The system stops working at a specific code. The following is the debugging code list about the error of the system board.

Code	POST Routine Description	Code	POST Routine Description
02	VERIFY REAL MODE	26	ENABLE A20
03	DISABLE NMI	28	AUTO SIZING DRAM
04	GET CPU TYPE	32	COMPUTE THE CPU SPEED
06	INIT, SYSTEM H/W	34	TESET CMOS RAM
08	INIT, CHIPSET REG	38	SHADOW SYSTEM BIOS ROM
09	SET IN POST FLAG	3A	AUTO SIZING CACHE
0A	INIT CPU, REG	3C	CONFIGURE ADVANCED CHIPSET REG,
0B	CPU CACHE ON	3D	LOAD ALTER REG, WITH CMOS VALUE
0C	INIT, CACHE TO POST	42	INIT, INTERRUPT VACTOR
0E	INIT, I/O VALUE	44	INIT, BIOS INTERTUPT
0F	ENABLE THE L-BUS IDE	46	CHECK ROM COPYRIGHT NOTICE
10	INIT, POWER MANAGER	47	INIT, I20 SUPPORT IF INSTALLED
11	LOAD ALTERNATE REC.	48	CHECK VIDEO CONFIGURE AGAINST CMOS
13	PCI BUS MASTER RESET WITH INITIAL POST VALUE	49	INIT, PCI BUS AND DEVICE
14	INIT, KEYBOARD CONTROLLER	4A	INIT, ALL VIDEO BIOS ROM
16	CHECK CHECKSUM	4C	SHADOW VIDEO BIOS ROM
18	8254 TIMER INIT.	50	DISPLAY CPU TYPE AND SPEED
1A	8237 DMA CONTROLLER INIT.	52	TEST KEYBOARD
1C	RESET INTERRUP CONTROLLER	54	SET KEYCLICK IF ENABLED
20	TEST DRAM REFRESH	56	ENABLE KEYBOARD
22	TEST 8742 KEYBOARD CONTROLLER	58	TEST FOR UNEXPECTED INTERRUPTS
24	SET ES SEGMENT REG, TO 4GB	5A	DISPLAY "PRESS.....SETUP"

Code	POST Routine Description	Code	POST Routine Description
5C	TEST RAM GETWEEN 512K AND 640K	A8	ERASE F2 PRIMPT
60	TEST EXTENDED MEMORY	AA	SCAN FOR F2 KEY STROKE
62	TEST EXTENDED MEMORY ADDRESS	B0	CHECK FOR ERROR
	LINE	B2	POST DONE-PREPARE TO BOOT O/S
64	JUMP TO USER PATCH 1	B4	ONE BEEP
66	CONFIGURE ADVANCE CACHE REG,	B6	CHECK PASSWORD (OPTION)
6A	DISPLAY EXTERNAL CACHE SIZE	B7	ACPI INIT
6C	DISPLAY SHADOW MESSAGE	BA	DMI INIT
6E	DISPLAY NON-DISPOSABLE SEGMENT	BE	CLEAR SCREEN
70	DISPLAY ERROR MESSAGE	C0	TRY BOOT WITH INT19
72	CHECK FOR CONFIGURATION ERROR	D0	INTERRUPT HANDLER ERROR
74	TEST RAL-TIME CLOCK	D2	UNKNOWN INTERRUPT ERROR
76	CHECK FOR KEYBOARD ERROR	D4	PENDING INTERRUPT ERROR
7C	SETUP HARDWERE INTERRUPT VECTOR	D6	SHUTDOWN 5
7E	TEST COPROCESSER IF PRESENT	D8	SHUTDOWN ERROR
80	DISABLE ON-BOARD I/O PORT	DA	EXTENDED BLOCK MOVE
82	DETECT AND INSTALL EXT, RS232C	DC	SHUTDOWN 10
84	DETECT AND INSTALL EXT, PARALLEL	89	ENABLE NMI
86	RE-INIT, ON-BOARD I/O PORT	90	INIT, HDD CONTROLLER
88	INIT, BIOS DATA ROM	91	INIT, LOCAL BUS HDD CONTROLLER
8A	INIT, EXTENDED BIOS DATA AREA	92	JUMP TO USER PATCH 2
8C	INIT, FDD CONTROLLER	94	DISABLE A20 ADDRESS LINE
9A	SHADOW OPTION ROMS	96	CLEAR HUGE ES SEGMENT REC.
9C	SETUP POWER MANAGEMENT	98	SEARCH FOR OPTION ROMS
9E	ENABLE H/W INTERRUPT	AC	ENTER SETUP
A0	SET TIME OF DAY	AE	CLEAR IN POST FLAG
A4	INIT, TYPEMATIC RATE		

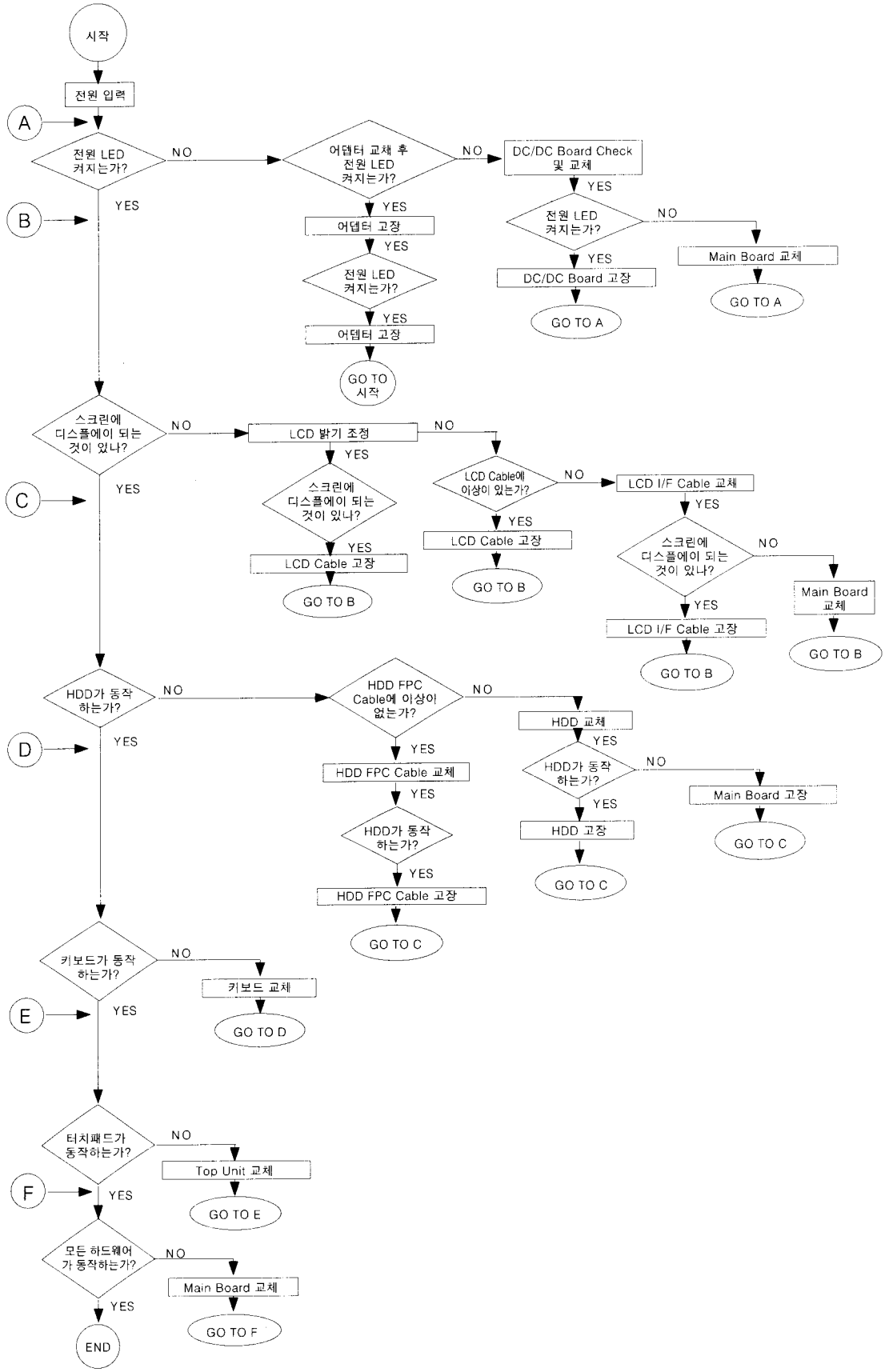
2-2-3 고장 증상별 고장 부위 및 체크 포인트(Trouble Shooting)

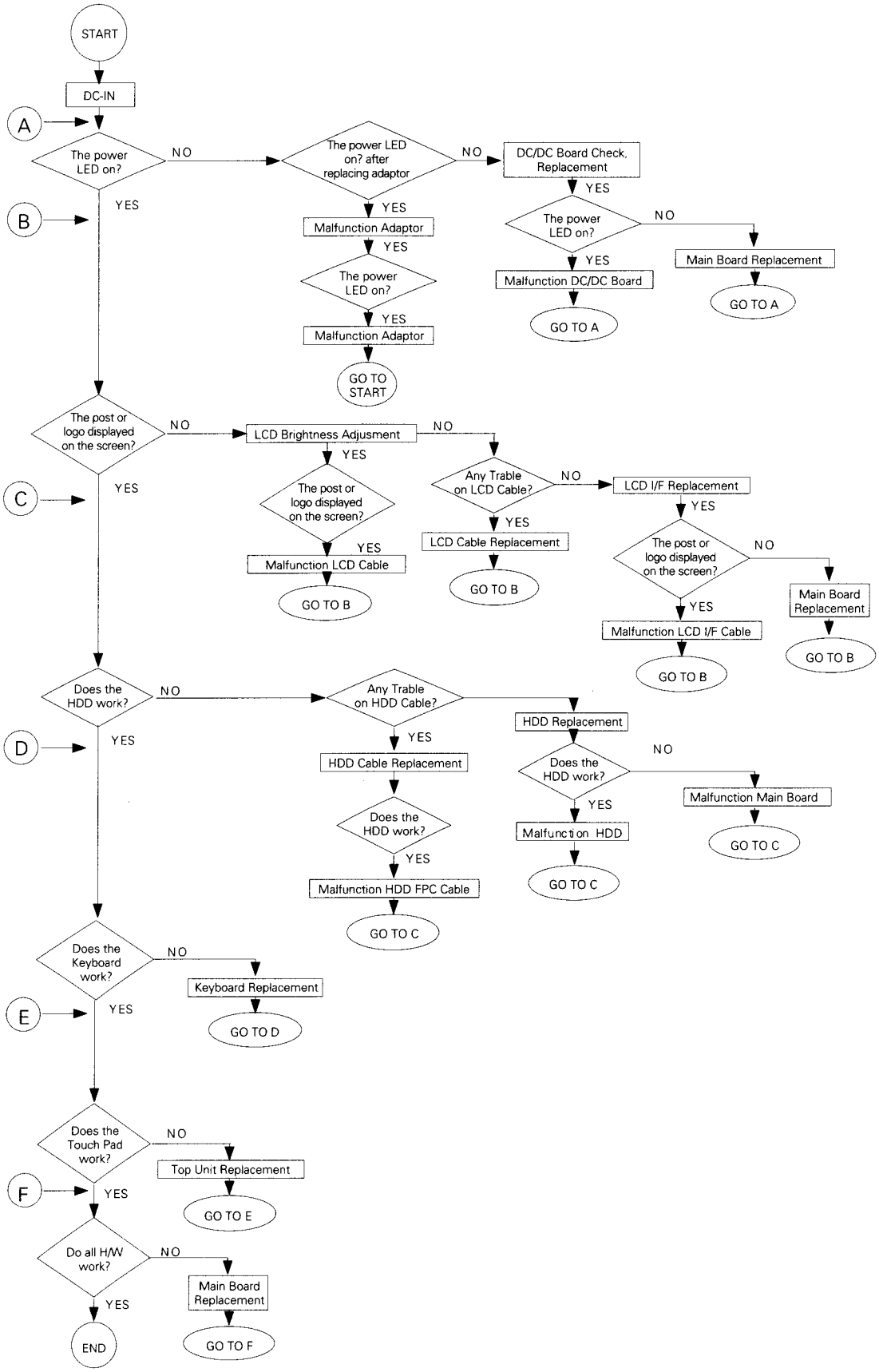
증 상 (Symptom)	원 인 (Probable Causes)	해결방법 (Recommanded Actions)
HDD 인식 안됨 Not Recognizing HDD Drive	HDD FPC Cable이 빠지거나 Cable 불량 혹은 HDD 고장. HDD FPC Cable is loose, Cable Problem or HDD Problem	케이블 재 삽입, 케이블 교체, HDD 교체. Cable 및 HDD 교체 후에도 인식 안될 경우 Main Board 교체. Secure HDD FPC Cable Connection. Cable Replacement or HDD Replacement. In case of these Actions not worked out, Replace the System Main Board.
Adaptor & Power LED 동작 안됨. No Response When the computer is turned on.	Power Cord 빠짐. Adaptor불량이나 Bottom Unit에 조립되어 있는 LED Board 불량, System Main Board 불량. The system is not plugged in. Malfunction Adaptor, LED Board or System Main Board	Power Cord 삽입. Adaptor 나 Bottom Unit(LED Board 고장) 교체. System Main Board 불량. Turn off the computer, Plug it in. Replace the Adaptor or Bottom Unit which LED Board is assembled into. Replace The system Board.
BlueTooth & Wireless LAN Power 동작 안됨 Not Operating BlueTooth, Wireless LAN Power Button	단품 불량, On-Top Board 고장. Malfunction BlueTooth or Wireless Module. Malfunction On-Top Board.	단품 교체, On-Top B'do이 조립되어 있는 Top Unit 교체. Replace the BlueTooth or Wireless Module. Replace the Top-Unit which a On-Top Board is assembled into.
Touch Pad 인식 안됨. No Response to Touch Pad Command.	Touch Pad FPC Cable이 메인 보드와 분리되었거나 Touch Pad 모듈 불량. The Touch Pad FPC Cable is loose. Malfunction Touch Pad Module.	세트 분해 후 Touch Pad Connection 확인, 확인 후 이상이 없을 시 Touch Pad Module이 조립되어 있는 Top Unit 교체. Secure the Touch Pad Cable Connection In case of above action not worked out, Replace the Top-Unit which a Touch Pad module is assembled into.
화면 어두움 Screen Darkness.	LCD Cable, LCD I/F Cable 및 Invertor Connector 분리나 불량. LCD Cable or LCD I/F Cable is loose. Invertor Connection is loose. Malfunction LCD Cable, LCD I/F Cable or Invertor.	LCD Cable, LCD I/F Cable 및 Invertor Connector 확인 및 교체. Secure LCD Cable or LCD I/F Cable Connection. Secure Invertor Connection. Replace LCD Cable, LCD I/F Cable or Invertor.
LAN Test Error	MAC Address가 지워지거나 3COM LAN Chip 이나 ICH-4 불량. MAC Address is deleted on the EEPROM. 3COM LAN Chip or ICH-4 may have failed.	MAC Address를 Rewrite한 후 확인. 혹은 Main Board 교체. Rewrite MAC Address on the EEPROM with MAC Address Write Program. Replace the System Main Board.
Modem Test Error	MDC Modem 이나 Modem Cable 불량. Malfunction MDC Modem or Modem Cable	MDC Modem 및 Cable 교체. Replace MDC Modem and Modem Cable.

증 상 (Symptom)	원 인 (Probable Causes)	해결방법 (Recommanded Actions)
화면무 No Screen Display.	LCD Cable, LCD I/F Cable 및 Invertor Connector 분리나 불량 혹은 Memory Module 불량으로 화면 무 나올 수 있음. LCD Cable or LCD I/F Cable is loose. Invertor Connection is loose. LCD Cable, LCD I/F Cable or Invertor is out of work. Malfunction Memory Module or Not supported Memory module usage	LCD Cable, LCD I/F Cable 및 Invertor Connector 확인 및 교체 및 시스템이 지원하는 Memory인지, 불량인지 확인. Secure all LCD Cables and Invertor Connection. Replace LCD Cable, LCD I/F Cable or Invertor. Replace Memory Module.
Battery 충전 안됨 No charging The Battery	Adaptor 꼽았을 때 LED 확인/ 주황색(Battery 충전중), 녹색(Battery 100% 충전) 윈도우에서 100% 충전임에도 주황색이면 Battery 불량이나 Adaptor 혹은 LED Board 고장. Main Board 고장 When Adaptor in, Check the LED. While the battery is charging normally, the battery charging light on the computer is amber. When the battery is fully charged, the light changes to the green. If the light is amber, even though it is fully charged, there is something wrong on the system. Malfunction the Adaptor, LED Board, or Battery. Main Board can be out of work.	Adaptor 꼽았을 때 LED 확인/ 주황색(Battery 충전중),녹색(Battery 100% 충전) 윈도우에서 100% 충전임에도 LED Color가 주황색이면 Adaptor, Bottom Unit(LED Board 고장)교체나 Battery 교체. Replace the Adaptor, Bottom-Unit which LED Board is assembled into or Battery. Replace the system Main Board if above actions are worked out.
PCMCIA CARD 삽입 안됨 No Inserting PCMCIA Card.	PCMCIA Socket 내부의 Insulator가 안쪽으로 밀려 들어 가 PCMCIA가 삽입이 안될 수 있음 The Insulator in the inside of the PCMCIA Socket can be folded into, so PCMCIA CARD can not be inserted .	Set 분해 후 부착 위치 조정. After disassembling the system, unfold the insulator.
ODD TRAY DOOR 안 열림 Not Opening ODD Tray Door	ODD 단품 불량이나 메인보드 불량 Malfunction ODD Unit or System Main Board.	ODD 단품 교체나 메인보드 불량. Replace the ODD Unit or System Main Board.
PCMCIA Eject Button 안 튀어 나옴 No Operation PCMCIA Eject Button	PCMCIA FRAME 단품 불량. Malfunction PCMCIA Eject Button	PCMCIA 단품 교체. Replace the PCMCIA Frame
SPEAKER 소리 무 No Sound from the Internal Speakers	스피커 불량, 스피커 Connector, Touch Pad FPC Cable Connector 빠짐. Malfunction Speakers The Speakers or Touch Pad FPC Cable Connection is loose.	스피커 불량 시에는 Top Unit 교체. 스피커 Connector나 Touch Pad FPC Cable Connector 빠졌을 경우 재 삽입. Replace the Top-Unit which the speakers are assembled into in case of speakers' problem. Secure the connection of speakers and Touch Pad FPC Cable

증 상 (Symptom)	원 인 (Probable Causes)	해결방법 (Recommanded Actions)
LCD Backlit 밝기 조정 불량 Being able to Adjust the Brightness.	LCD Cable, LCD I/F Cable 및 Invertor Connector 분리나 불량.	LCD Cable, LCD I/F Cable 및 Invertor Connector 확인 및 교체.
Easy Button 동작 안함. Not operating Easy Button	On-Top Board 고장. On-Top Board is out of work.	Top Unit 교체. Replace the Top-Unit which the LED board is assembled into
이어폰이나 외부 스피커 연결 시 소리 무 No Sound from the Head Phones or External Speakers	Audio Board, Audio Cable 이나 Audio Codec Chip 불량 The Audio Board or Cable is out of work. The Audio Codec is failed.	Audio Board나 Audio Cable 교체 확인 후 문제 개선 없을시 Main Board 교체 Replace the Audio Board or Cable. If above actions are not worked out, Replace the Main Board.

2-3 Debugging Flowchart




START
DC-IN
A
The power LED on?
NO
The power LED on? after replacing adaptor
NO
DC/DC Board Check, Replacement
YES
The power LED on?
NO
Main Board Replacement
GO TO A
YES
Malfunction DC/DC Board
GO TO A
YES
Malfunction Adaptor
YES
The power LED on?
YES
Malfunction Adaptor
GO TO START
B
YES
The post or logo displayed on the screen?
NO
LCD Brightness Adjusment
NO
YES
The post or logo displayed on the screen?
YES
Malfunction LCD Cable
GO TO B
Any Trable on LCD Cable?
NO
LCD I/F Replacement
YES
LCD Cable Replacement
GO TO B
YES
The post or logo displayed on the screen?
NO
Main Board Replacement
GO TO B
YES
Malfunction LCD I/F Cable
GO TO B
C
YES
Does the HDD work?
NO
Any Trable on HDD Cable?
HDD Replacement
D
YES
YES
HDD Cable Replacement
NO
Does the HDD work?
Malfunction Main Board
GO TO C
YES
Malfunction HDD
GO TO C
Does the HDD work?
YES
Malfunction HDD FPC Cable
GO TO C
Does the Keyboard work?
NO
Keyboard Replacement
GO TO D
E
YES
Does the Touch Pad work?
NO
Top Unit Replacement
GO TO E
F
YES
Do all H/W work?
NO
Main Board Replacement
GO TO F
YES
END

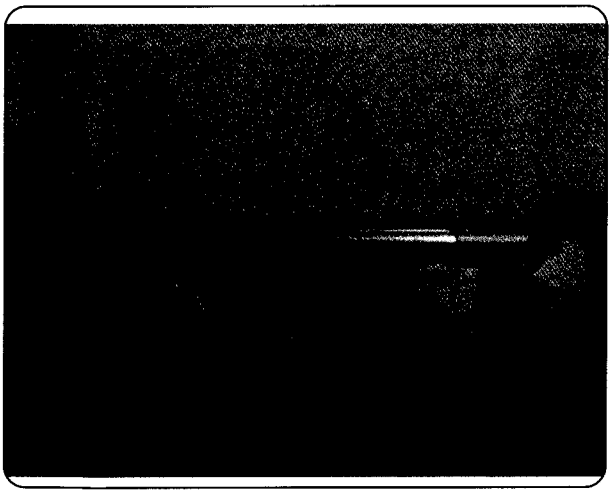
3 시스템 분해(The System Disassembly and Upgrade)

컴퓨터 부품을 교체하거나 확장하기 위해서는 시스템을 분해하거나 Memory와 Mini PCI door를 열어야 합니다.
You should take apart the system or open the Memory and Mini PCI door to replace or extend the computer parts or Memory.

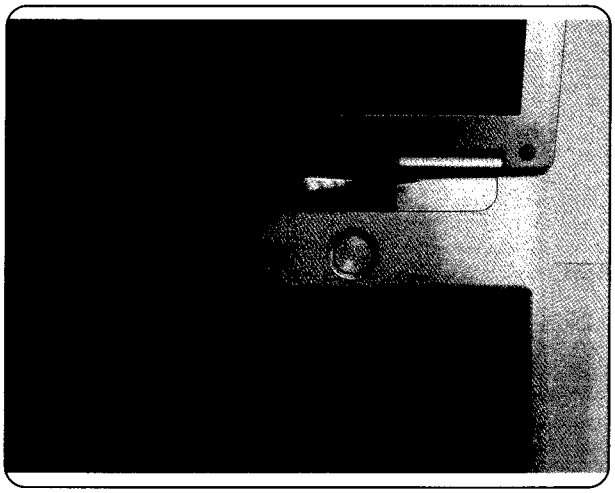
☞ 컴퓨터는 전기적인 충격에 심각한 손상을 받을 수 있으므로 분해를 하기 전에 반드시 전원 케이블을 분리하십시오.
The computer system can get damaged by electric shock, make sure unplug the power cable and unintall the battery before disassembly.

☞ 컴퓨터를 분해할 경우에는 먼저 컴퓨터를 종료한 후 반드시 전원케이블을 분리하십시오. 모뎀이나 랜선이 있는 경우 분리하십시오. 감전의 우려가 있습니다.
In the case of taking apart the computer system, Please shut down the system first and then unplug the power cable. Also unplug them from the system, if LAN or Modem cable is connected to the computer system, Otherwise you can get electric shock.

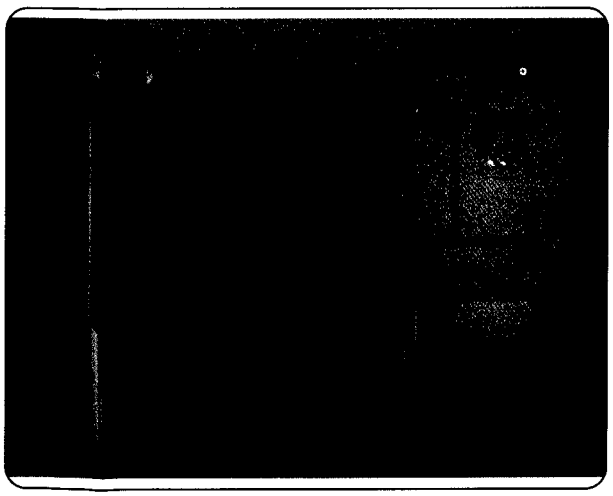
3-1 시스템 분해하기(The System Disassembly)



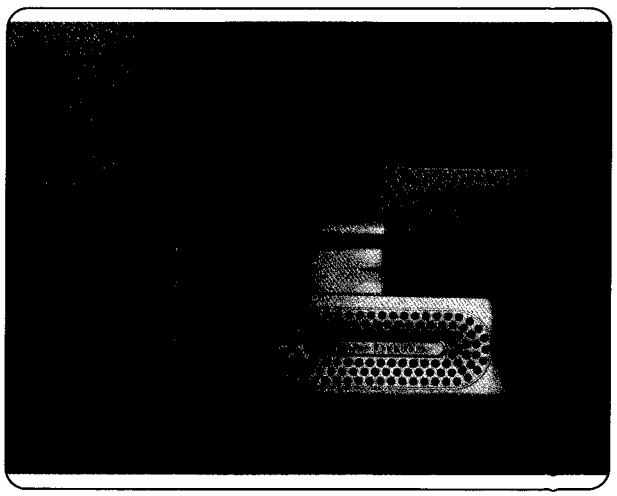
Figuer 3-1



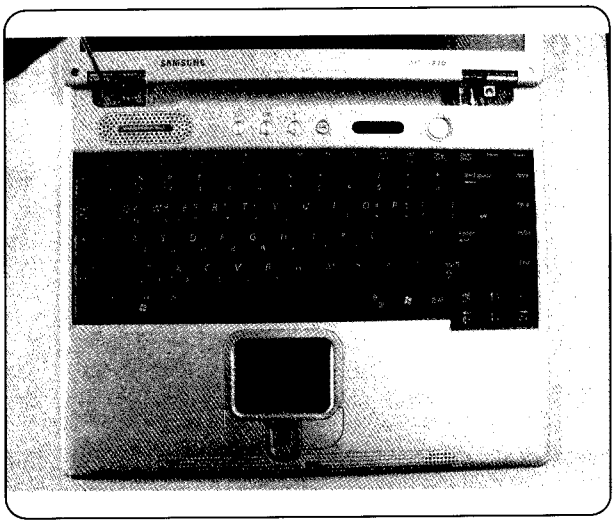
Figuer 3-3



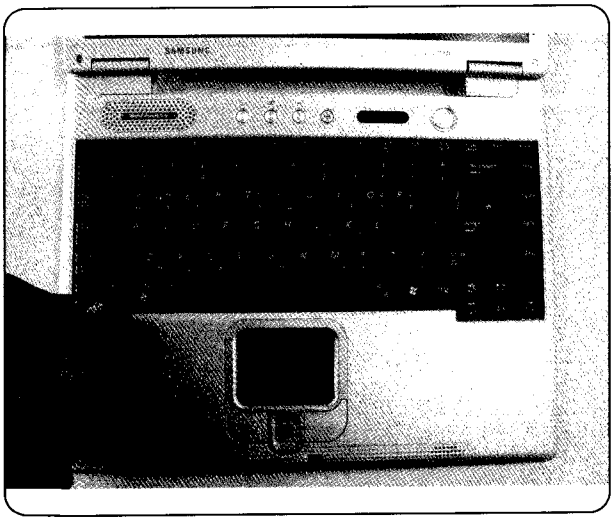
Figuer 3-2



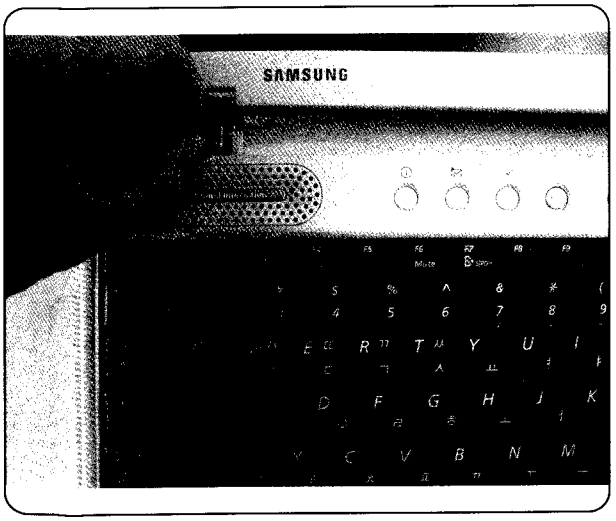
Figuer 3-4



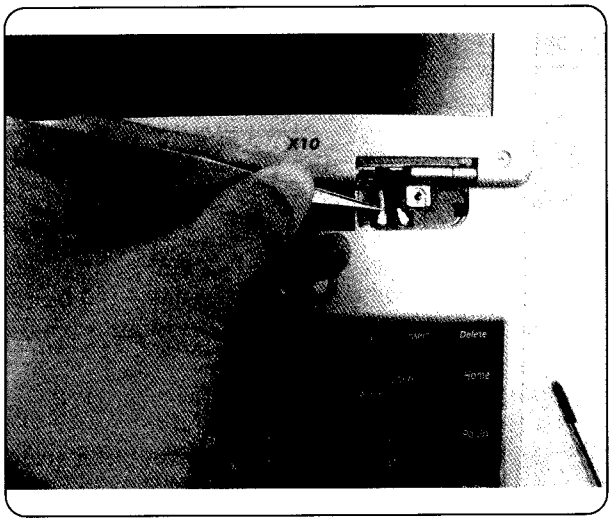
Figuer 3-5



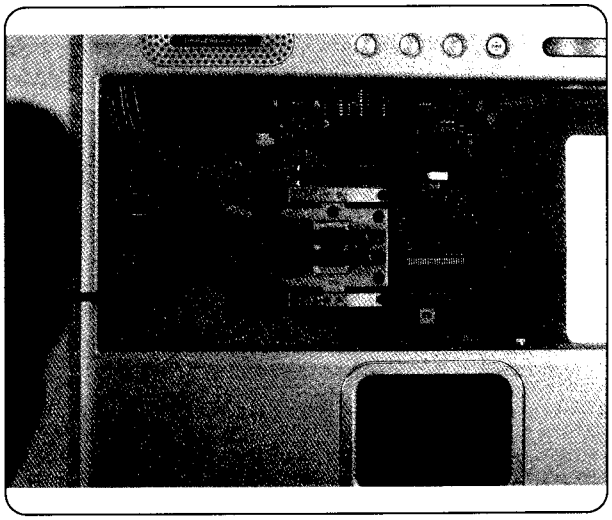
Figuer 3-6



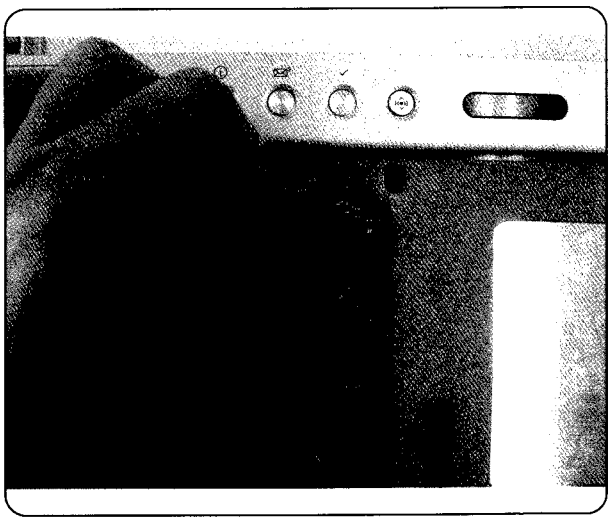
Figuer 3-7



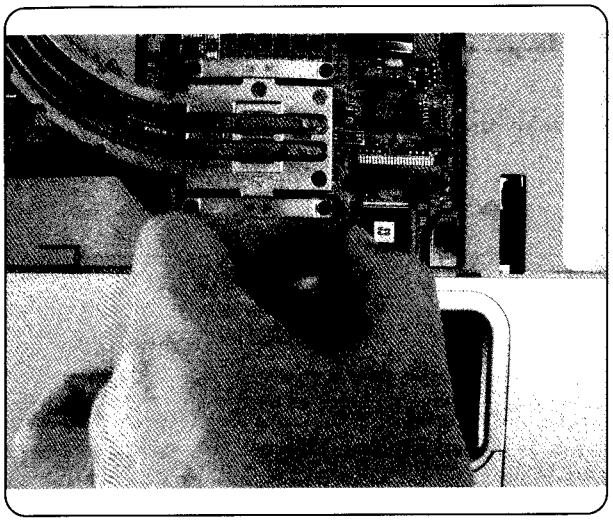
Figuer 3-8



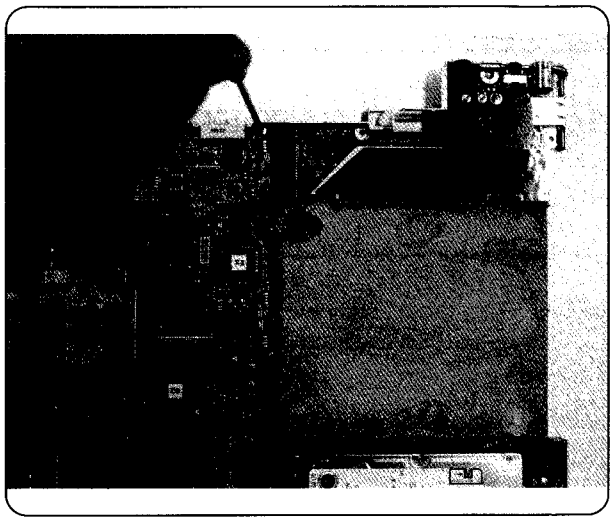
Figuer 3-9



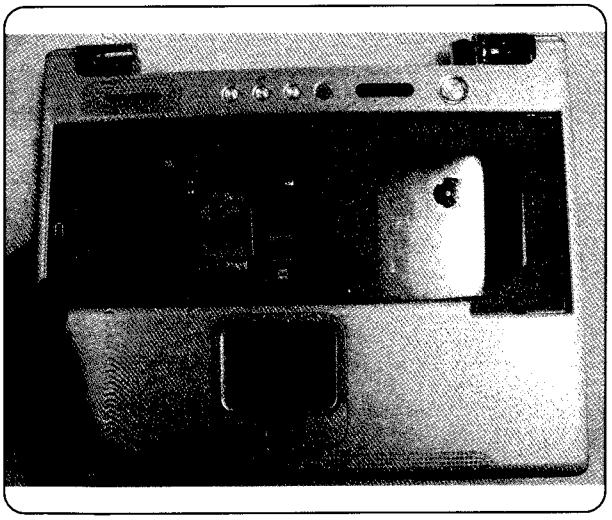
Figuer 3-10



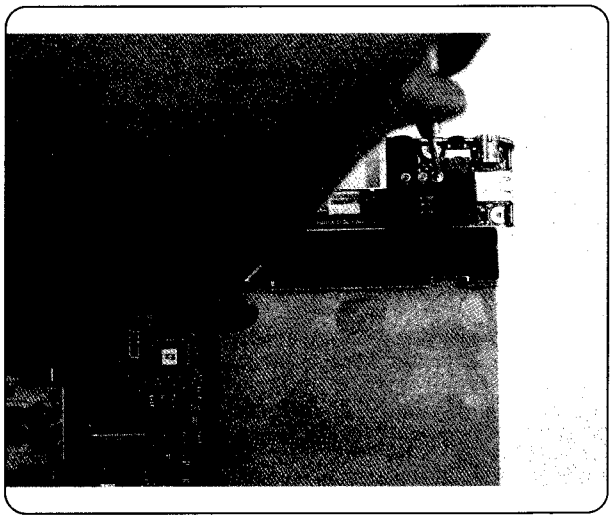
Figuer 3-11



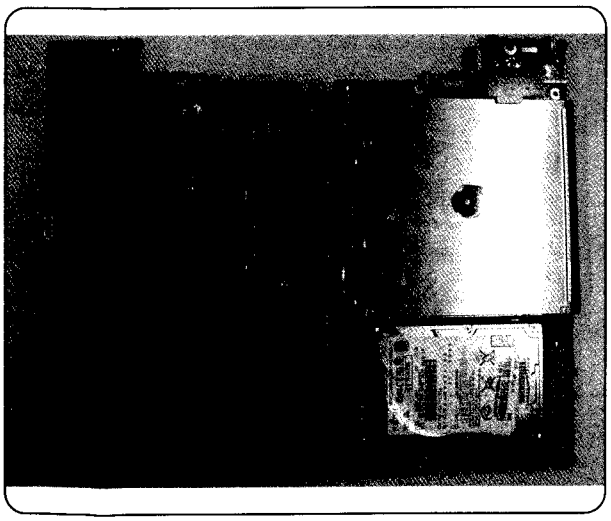
Figuer 3-14



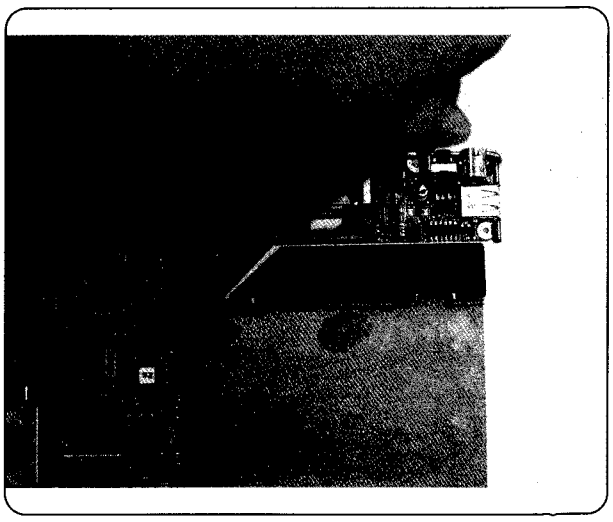
Figuer 3-12



Figuer 3-15



Figuer 3-13

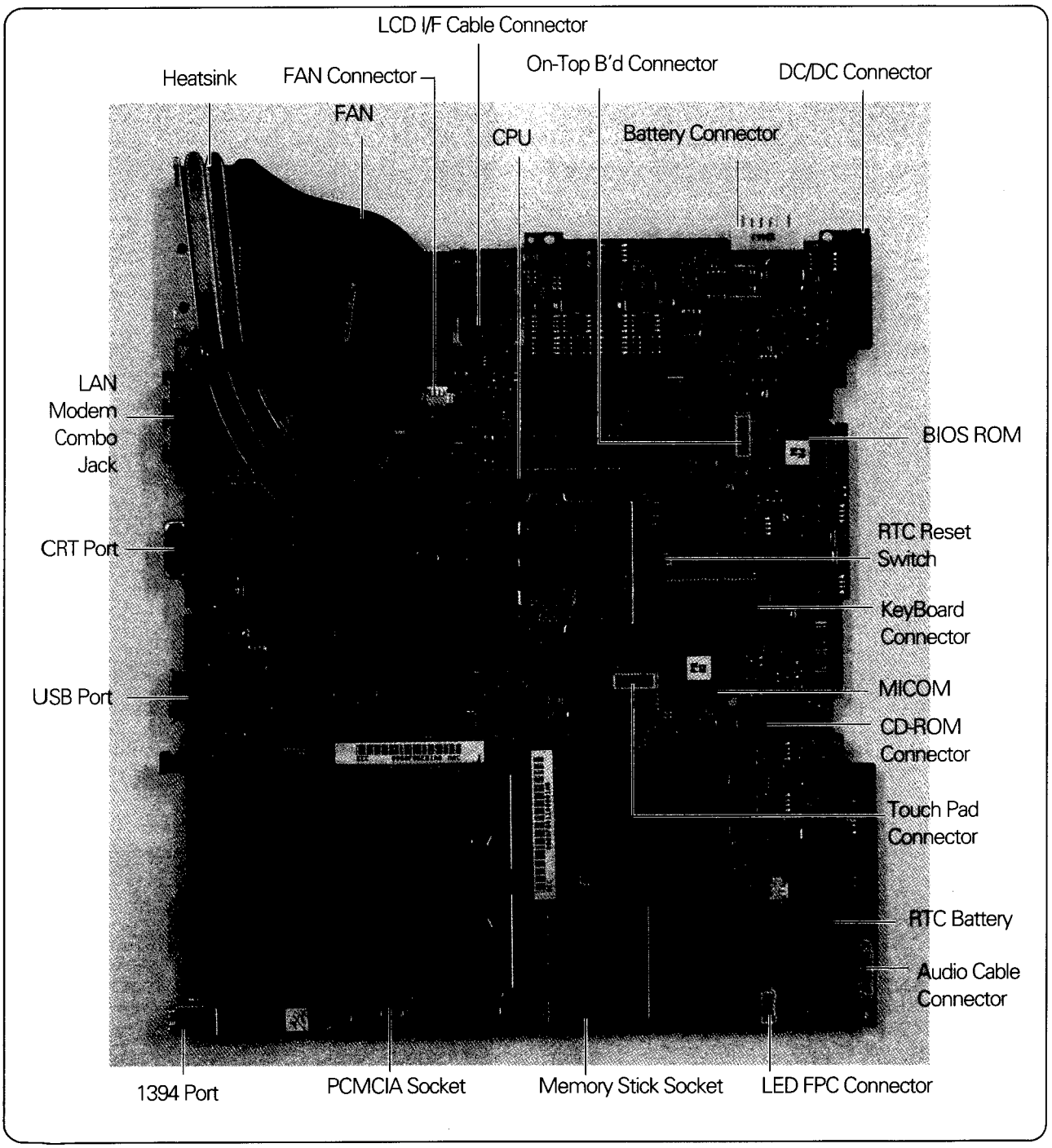


Figuer 3-16

3-2 시스템 내부 구성(The Structure of the System Inside)

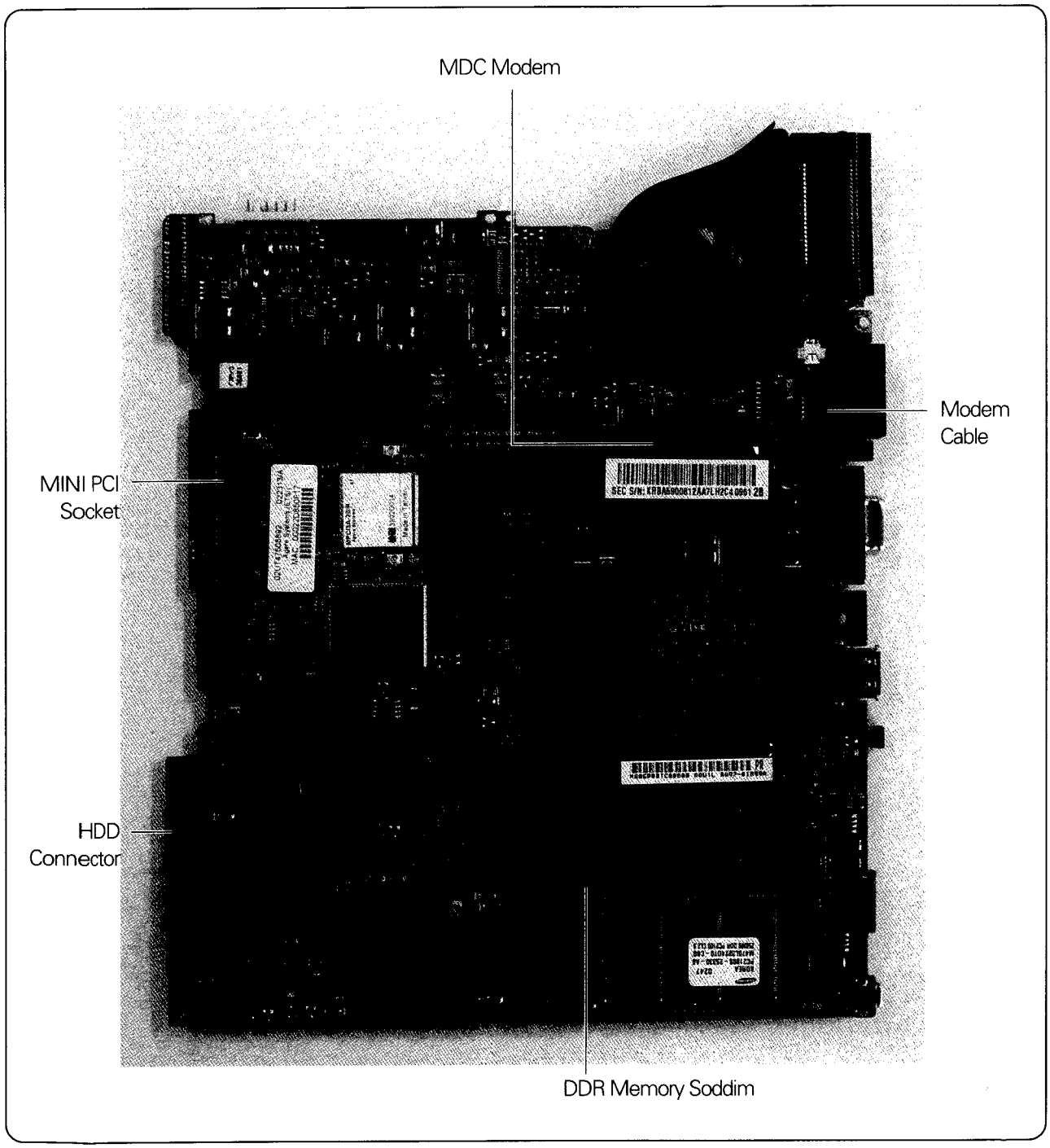
3-2-1 컴퓨터 내부 명칭(The Name of the System Inside)

3-2-1-1 Main Board Top



Figuer 3-17

3-2-1-2 Main Board Top



Figuer 3-18

4 Main Board

4-1 Main Board Design 소개

4-1-1 목적(PURPOSE)

SX10은 Intel 최초의 모바일 전용 CPU인 인텔R 센트리노 모바일 기술(IntelR Centrino Mobile Technology)이 적용된 최초의 전용 모바일 CPU를 지원하며 노스 브릿지 Odem은 593핀의 PCBGA 패키지와 사우스 브릿지(SouthBridge)에는 인텔845G등에 채용되고 있는 ICH4의 모바일판인 ICH4-M이 적용되어 안정적이고 성능이 우수한 MAIN BOARD 개발.
SX10 supports for the first mobile cpu applied IntelR Centrino Mobile Technology, North Bridge 'Odem' and ICH4-M for exclusive use of mobile system.

4-1-2 범주(CATEGORY)

MAIN BOARD 개발에 관련한 Chipset Spec 및 System Resource를 기술한다.
Description of chip spec and system resource related to the main board design.

4-2 SYSTEM SPECIFICATION

4-2-1 GENERAL SPEC

The purpose of this document is to provide a technical overview of the SX10 for uses internal to Samsung.
The SX10 system is configured legacy free 2-spindle platform and is optimized to use it on portable environment. It measures
2. 315mm (W) x 259mm (D) in footprint and 19.3mm (min) /23.6mm (typical) / 25.4mm (max) in thickness.
The SX10 is based on a 14.1"TFT LCD display and a full size mobile keyboard. It supports the Intel Pentium M (Banias) processor and Intel Odem/ICH4M chipset with 400MHz CPU bus. The system features include on board Wired LAN(3COM-3c920), MDC(Modem Daugther board Card) using AC link, internal mini-PCI wireless LAN card, 4-pin 1394 port supports external 1394 devices, 2 USB 2.0 ports, 2 DDR SODIMM memory slots, a large capacity hard drive and DVD CD-RW Combo. The system features NVIDIA Geforce4 (integrated 32MB Graphic Memory or 64MB Graphic Memory) graphics controller, Ricoh R5c590 supports Card Bus, 1394 and Memory Stick.

4-2-2 IO Port

4-2-2-1 IO Ports on System

1. Left Side Ports: RJ-11&RJ45, 1 VGA port, 1 USB, 1 IEEE1394 (4 pin), 1 Type II PCMCIA slot.
2. Right Side Ports: 1 Earphone Jack, 1 MIC-in DVD-Combo Bay, 1 USB
3. Rear Port: Kensington lock port, Battery connector, DC-in, S/PDIF, S-VHS TV out.
4. Bottom Port: Mini-PCI, Memory Module, HDD door
5. Front Port: Memory Stick

4-2-3 Detailed Specifications

4-2-3-1 Main Board

1. CPU's and Heat-sink
   - CPU: the Intel Pentium M (Banias) CPU.
   - Package type of CPU: 479pin μFCBGA.
   - Core Frequency : 1.3 ~ 1.7 GHz
   - L2 Cache : 1MB
   - Intel Speed Step™ technology. (the Intel IMVP4 function)
   - There is no CPU socket.
   - Heat-sink Performance : 24.5W TDP
   - The fan speed and operating voltage depend on the CPU temperature.
   - The fan speed is controlled by the MICOM

2. System Core Logic: Intel 855 (Odem) Chipset
   - Package type : 593pin uFCBGA
   - Memory Controller Hub (MCH)
   - 400 MHz Processor System Bus interface
   - Supports 200/266 MHz DDR memory interface
   - Accelerated Graphics Port(AGP) interface
   - Hub interface to ICH4M and PCI 2.2 compatible bus.

3. System Core Logic: Intel 82801DBM I/O Controller Hub (ICH4M)
   - Package type : 421pin μFCBGA
   - 33 MHz PCI Bus (PCI 2.2 compatible).
   - High speed USB 2.0 with 480Mb/s bandwidth
   - Supports AC97 Codec
   - Bus Master IDE controller (Support Ultra ATA 100/66/33 and PIO modes)
   - LPC(Low Pin count)I/F for BIOS and K/D Cont
   - Providing powerful power management features.
   - Fully supports ACPI Specification 1.0.

4. System Memory
   - 0MB on-board memory
   - Two 200-pin DDR SO-DIMM (Small Outline-Dual Inline Memory Modules) sockets
   - 128, 256, 512 MB and 1GB
   - Max 2GB

5. System Clocks: System clock: 14.31818 MHz X-TAL for ICS950810 clock generator. Clock generator supports
   - 100MHz for CPU
   - 100MHz, 66MHz for the MCH
   - 66MHz for AGP
   - 33MHz for all PCI clocks
   - 14.318MHz, 48 MHz and 33 MHz and 66MHz for ICH4M

6. System Clocks: Other clocks:
   - 27MHz XTAL for Graphic controller
   - 32.768 kHz XTAL for ICH4-M real time clock
   - 24.576MHz XTAL for CS4202 Audio Codec.
   - 25MHz XTAL for 3C920-ST06 LAN Controller.
   - 10MHz XTAL for MICOM
   - 24.576MHz XTAL for R5C590 1394/PCMCIA/Memory stick Controller.

7. Firmware Hub (BIOS ROM)
   - Package type : 32-pin PLCC
   - Capacity: 4 Mbit, 3.3 Volt Read/Write Flash memory
   - Manufacturer: SST
   - Part Number: 49LF004A-33

8. Video Controller
   - Package type : 692 PBGA
   - 256-bit 3D and 2D graphics accelerator.
   - Integrated 350Mhz Palette-DAC for analog VGA monitors up to 2048x1536
   - Integrated dual LVDS transmitter supporting LCD panels up to 2048x1536
   - Integrated NTSC/PAL TV encoder supporting resolutions up to 1024x768(S-VHS)
   - Fully compliant support for OpenGL 1.2 for all Windows operating systems and Linux.
   - 4x AGP interface
   - Integrated 32MB(Geforce4 420) or 64MB(Geforce4 440) Graphic memory
   - Manufacturer: NVDIA

9. PCMCIA / 1394 Controller/Memory stick
   - R5C590
   - PC98/99/2001 compliant
   - Power decreased by implement of Power Management supply on the operation.
   - Support Serialized IRQ
   - Support General Purpose IO
   - Package type : 272pin BGA
   - Manufacturer: Ricoh

10. The basic specification for the PCMCIA support is as follows:
   - Supports 1 type II PCMCIA
   - Direct connection to PCI bus and one PC Card (16bt) or Card Bus (32bit) slot
   - Compliant with PCI Power Management Interface 1.0 and ACPI 1.1
   - Compliant with PCI Local bus specification 2.2
   - Compliant with PC Card Standard Release 8.0 Specification
   - Support PCI Master/Target protocol
   - All memory read/write transaction (bi-direction)
   - I/O read/write transaction (bi-direction)
   - 2 programmable memory windows
   - Compliant with PCMCIA2.1/JEIDA4.2
   - 5 programmable memory windows
   - 2 programmable I/O windows
   - 16-bit Legacy mode support (3E0/3E2 I/O port)
   - Mix-and-Match 5V/3.3V PC Card16 Card and 3.3V Card bus.

11. The basic specification for the IEEE1394 support is as follows:
   - Compliance with IEEE1394-1995 and IEEE 1394a-2000 standard Specification.
   - Compliance with 1394OHCI Release 1.1/1.0 Standard Specification
   - Data transfer rate : 100M, 200M, 400Mbps
   - 2 port support
   - Set Initial values of Power Class and CMC by PCI Configuration registers.

12. Media Bay (Media Cards - Slot A only)
   - Compliant with Memory Stick Standard Format Specification Version 1.3

13. Keyboard Controller (MICOM)
   - HD64F2169
   - Package type :TQFP 144 pin package
   - Built-in 64KB ROM and 2KB RAM.
   - 2 Channel Serial Communication Interface (SCI)
   - 1 Channel Philips I2C Interface
   - Host Interface (XBS, LPC)
   - 8-bit host interface port / Five host interrupt requests (XBS)
   - Single-channel LPC port / Seven serial host interrupt requests (XBS)
   - Normal and fast A20 gate output
   - Keyboard matrix-scan support
   - I/O Ports: 114 input/output lines and 8 input-only lines
   - Interrupts: 9 external interrupt lines, 26 on-chip interrupt sources
   - Power down mode: Sleep mode / Software standby mode / Hardware standby mode
   - Manufacturer: Hitachi

14. There are five buttons that are directly connected to the keyboard Controller.
   - Power Button
   - Internet Button
   - E-mail Button
   - User define Button
   - Bluetooth on/off

15. Audio CODEC
   - CS4202
   - Package type : 48 pin TQFP
   - AC'97 2.1 compatible
   - 20-bit Stereo Digital-to-Analog Converters.
   - 18-bit Stereo Analog-to-Digital Converters.
   - Sample Rate Converters
   - Four Analog Line-level Stereo Inputs for LINE_IN, CD, VIDEO, and AUX
   - Two Analog Line-level Mono Inputs for Modem and Internal PC Beep.
   - Dual Stereo Line-level Outputs for LINE_OUT and ALT_LINE_OUT

- Dual Microphone Inputs
- High-Quality Pseudo-Differential CD Input
- Extensive Power Management Support
- Meets or Exceeds the Microsoft PC99 Audio Performance Requirements
- S/PDIF Digital Audio Output
- 48-pin Thin Quad Flat Pack (TQFP) package
- Audio amplifier : LM 4863MTEX (National Semiconductor)
- Microtech speaker module : MTC221D01
- there is no internal microphone

16. USB
    - 3 UHCI Host Controllers.
    - Each Host Controller includes a root hub with 2 separate USB ports each.
    - The ICH4-M Host Controllers also support USB 2.0(EHCI).
    - Over-current detection on all six USB ports is supported.
    - The over-current inputs are 5 V-tolerant
    - Port 0, 1 : USB ports on system
    - Port 2 : Bluetooth
    - Port 3 : Finger Print
    - Port 5, 6 : no use

17. Physical User Interface (LED)
    - Top side: Num Lock, Caps Lock, Scroll Lock, HDD activity indicator
    - Front side: Power On, AC Adapter/Battery Charging

18. Mini-PCI Slot
    - Type IIIA Mini-PCI slot.
    - Support only Mini-PCI Wireless LAN (802.11a/b) card

19. LOM (LAN on Motherboard)
    - 3C920
    - IEEE 802.3 compliant single-chip 10/100Mbps PCI bus master Ethernet controller
    - Integrated PHY 10BASE-T, 100BAST-TX, MII operation
    - Implements IEEE 802.3x Flow Control and 802.3u Auto-Negotiation
    - Address cashing filter for superior multicast packet handling and VLAN support
    - Remote-Wake-up and PC '99/'01 support, including ACPI Power Management
    - Configuration/User/Alert (SOS) Packet EEPROM and flash EPROM BIOS memory support
    - 176-pin PBGA package (V3)
    - 3V single supply, 5V I/O-tolerant operation (V3)
    - Remote system alerts (ASF) compatible event monitor
    - Management Boot Administrator (MBA)
    - V3-Low-power operation (120mA @10MHz typical)
    - CLK RUN support - Pause or slow PCI clock
    - Package type : 176 PBGA
    - Manufacturer : 3COM

20. MDC (Modem Daughterboard Card)
    - SENS LT56ADM
    - Line Interface or DAA Requirements (Worldwide) : RJ 11
    - Bus Interface
    - PC2001 Compliance
    - AC97 Link
    - Power Savings requirements and ACPI/APM Compliance
    - Wake Up Events
    - Data Compression and Error Correction Support
    - Data / Fax Support

4-2-4 DVD CD-RW ROM Drive

1. Secured via 2 screws to system.
2. 128 (w) x 9.5 (h) x 126.1 (d) mm
3. 160 g
4. 8X (DVD) , 24X (CD), 8 X (CD-RW)

4-2-5 HDD

1. 9.5 mm thick

2. 2.5″ IDE

3. Ultra ATA/100/66/33 modes supported

4. Up to PIO Mode 4

5. Primary IDE controller

6. Primary Master drive

7. Supports 30 / 40 / 60 /80 GB HDD or over if HDD is available.

4-2-6 Battery Pack

1. Lithium Ion- Cell Specifications for light Battery Pack:
   - Manufactured by Sanyo
   - 3 Cells
   - Cylindrical shape
   - 22000 mAh x 11.1 V = 24Wh
   - Compliant to Smart Battery Data Spec 1.1

2. Lithium Ion- Cell Specifications for Standard Battery Pack:
   - Manufactured by Sanyo
   - 6 Cells
   - Cylindrical shape
   - 4400 mAh x 11.1 V = 48Wh
   - Compliant to Smart Battery Data Spec 1.1

4-2-7 AC Adapter

1. SEMCO AC Adapter Model Number AD-6019

2. The line input voltage and frequency operating ranges will be 100-240 VAC, 47 to 63 Hz.

3. One constant voltage output- 19 VDC nominal)

4. Load Range 0 to 3.2 Amps

5. Minimum efficiency 80%

6. Ripple Voltage 300mV(p-p) maximum

7. There is no LED on the AC Adapter

8. The AC Adapter will be labeled according to applicable safety and emissions standards

9. The length of the DC-In cord is 5.7 feet and it is permanently attached to the AC Adapter.

10. The connector of the DC-In cord is a international standard cylindrical power jack

4-3 ELECTRICAL SPECIFICATION

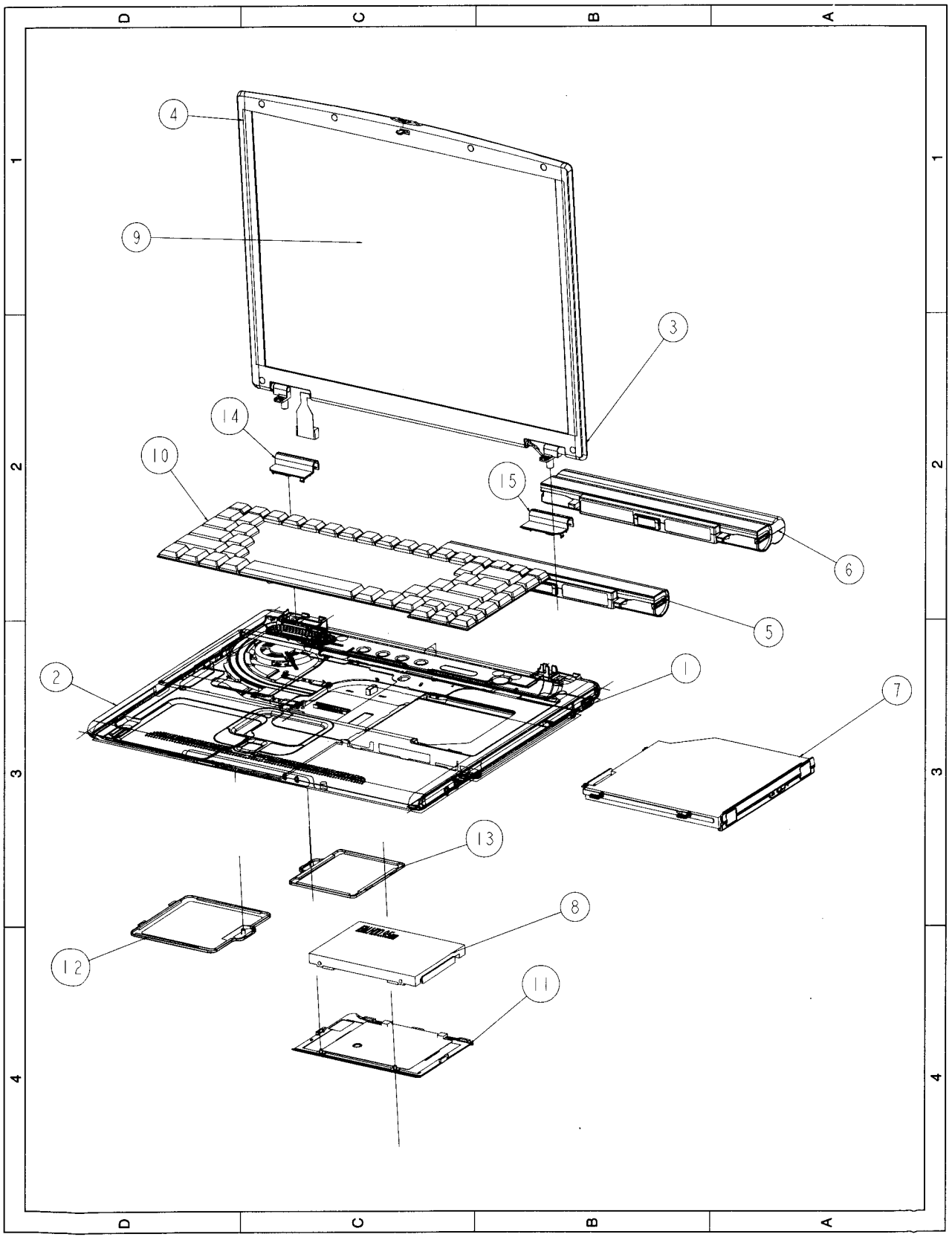
4-3-1 Power Plane Analysis

COMPONENT	VCC	GND
CPU	VCC CORE VCCP : 1.05V	GND
Odem	VCC MCH: 1.2V VCCP: 1.05V P3.3V: 3.3V P2.5V_AUX: 2.5V P1.8V: 1.8V P1.5V: 1.5V	GND
ICH4M	P3.3V: 3.3V P3.3V_AUX:3.3V P1.8V: 1.8V P1.5V_AUX:1.5V P1.5V: 1.5V	GND
Memory	P3.3V: 3.3V P2.5V_AUX: 2.5V	GND
Graphic	GFX CORE: 1.2V LFPPLL: 2.8V P5V: 5.0V P3.3V: 3.3V P2.5V: 2.5V P1.5V: 1.5V	GND
PCMCIA R5C590	P1.8V:1.8V P3.3V:3.3V	GND

COMPONENT	VCC	GND
Audio CS4202	P3.3V: 3.3V	GND
LAN 3C920-ST06	P3.3V_Always: 3.3V	GND
AMP LM4863	AVDD: 5V	AUD_GND
BIOS SST49LF004A	P3.3V: 3.3V	GND
MDC	P3.3V_AUX:3.3V	GND
HEADPHONE	P5V	AUD_GND
MIC	AVDD	MIC_GND
LED	P3.3V:3.3V	GND
TOUCHPAD	P5V:5V	GND
MICOM HD64F2169	MICOM_P3V: 3.3V	GND
ADM1032ARM	P3.3V: 3.3V	GND
CARDBUS SOCKET	CB3_VCC: 3.3V CB12_VPP: 12V	GND
Memory Stick	CA3_VCC: 3.3 or 5V	GND
Mini PCI	P5V: 5V P3.3V:3.3V P3.3V_AUX: 3.3V	GND
HDD	P5V: 5V	GND
CD/DVD	P5V_CD: 5V	GND
LCD INTERFACE	LCD_VDD3V: 3.3V	GND
INVERTER	INV_VDC: VDC	GND
USB	P5V: 5V	GND

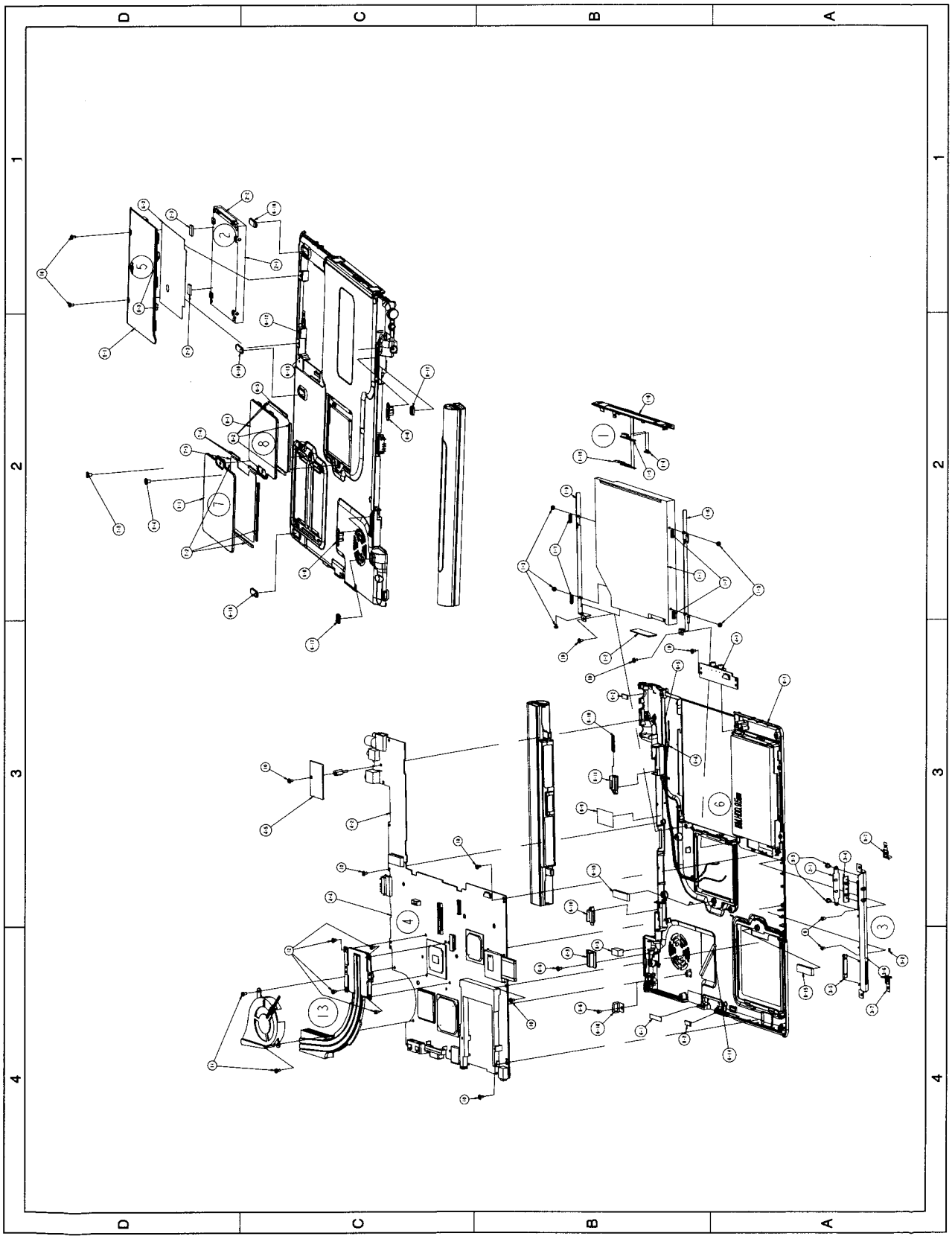
4-4 Exploded View and Mechnical Parts List

4-4-1 System Exploded_All



NO	DESCRIPTION	CODE NO	SPECIFICATION	Q'TY
1	UNIT_HOUSING_BOTTOM	BA75-00950A	MG 0.8T	1
2	UNIT_HOUSING_TOP	BA75-00949A	PC / CF T1.0	1
3	UNIT_LCD_BACK	BA75-00948A	MG 0.85T	1
4	UNIT_LCD_FRONT	BA75-00951A	PC T0.7	1
5	BATTERY_3CELL	BA43-00084A	PC / ABS 94V0	1
6	BATTERY_6CELL	BA43-00085A	PC / ABS 94V0	1
7	DVD_PACK			1
8	HDD_PACK(2.5")	BA59-00790A	IBM 20GB	1
9	LCD	BA59-00191A	LTN141XJ-L01	1
10	X10_KEYBOARD	BA59-00968C		1
11	UNIT_DOOR_HDD	BA75-00953A	PC / CF 904V0	1
12	UNIT_DOOR_MEMORY	BA75-00956A	AL T0.5	1
13	UNIT_DORR_PCI	BA75-00957A	AL T0.5	1
14	CAP_HINGE_L	BA67-00161A	PC / ABS 94V0	1
15	CAP_HINGE_R	BA67-00162A	PC / ABS 94V0	1

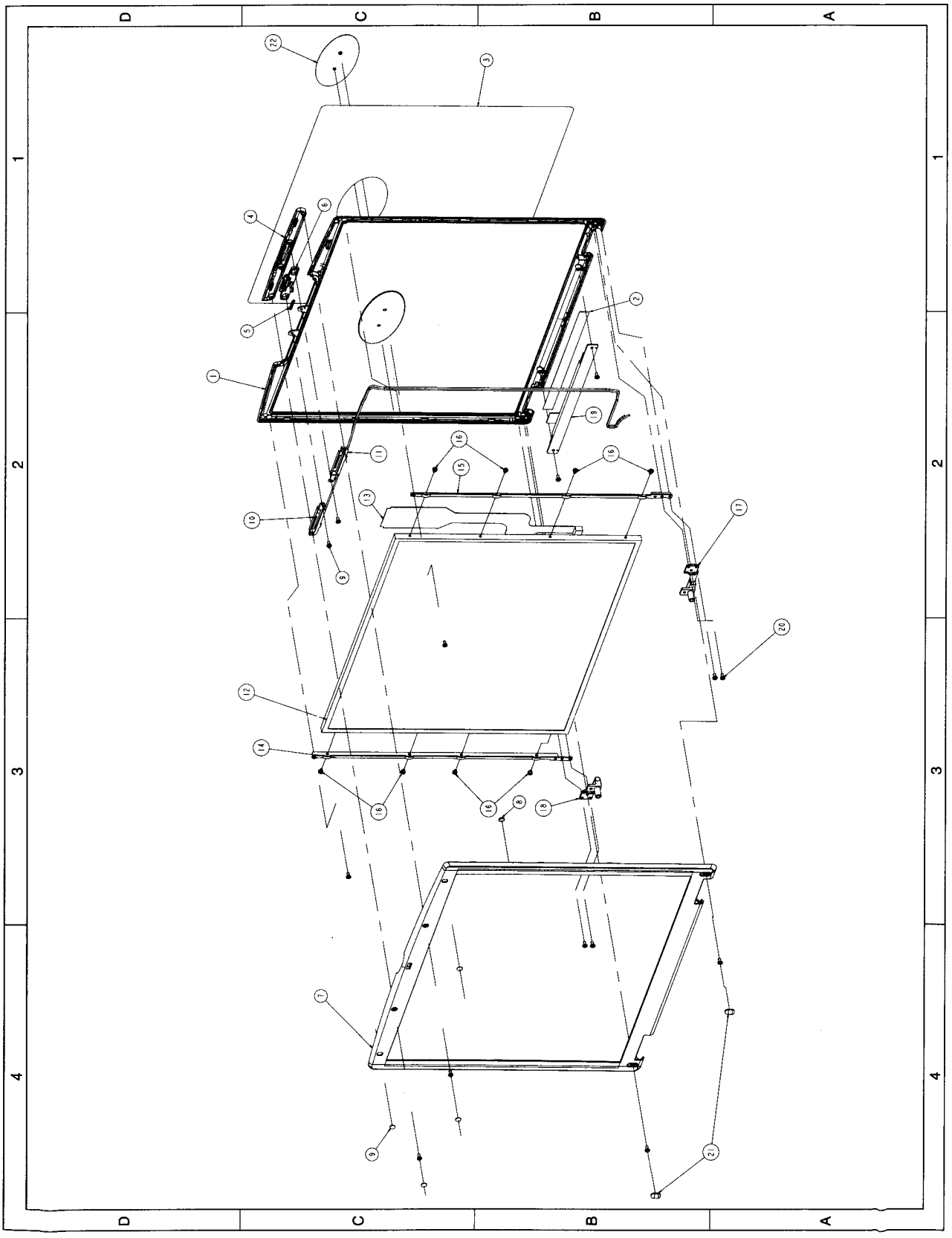
4-4-2 System Explode_Housing_Bottom



NO	PART NAME	CODE NO	SPECIFICATION	Q'TY
1	UNIT_BEZEL-DVD COMBO	BA75-00952A		1
1-1	DVD COMBO			1
1-2	DVD_FPC	BA41-00329A		1
1-3	SCREW MACHINE	6001-001660	M2.0 X L2.0,CH,YEL,+,NYLOK	5
1-4	LENS-DVD COMBO	BA67-00167A	PC	1
1-5	KNOB-DVD COMBO	BA64-00385A	PC / ABS	1
1-6	BEZEL-DVD COMBO	BA64-00390A	PC / ABS	1
1-7	RUBBER-DVD COMBO	BA73-00235A	SILICONE 80도	4
1-8	BRKT-DVD L	BA61-00529A	STS304	1
1-9	BRKT-DVD R	BA61-00530A	STS304	1
1-10	PLATE-SPRING COMBO	BA70-00581A	STS304 T0.15	1
2	UNIT_HDD			1
2-1	HDD(2.5")	BA59-00790A	IBM(20GB)	1
2-2	HDD_FPC	BA41-00328A	2.5"	1
2-3	RUBBER-HDD SHOCK	BA73-00238A	PORON 6X6X2.1	2
3	UNIT CAP FRONT	BA75-00958A		1
3-1	LED-BOARD	BA61-00330A		1
3-2	SPRING-TS PCMCIA	BA61-70091A		1
3-3	SCREW TAPPING	6003-001376	M2.0 X L3.5,BH,WHT,+,NYLOK	2
3-4	LENS-CAP FRONT	BA67-00166A	PC	1
3-5	DOOR-MEMORY STICK	BA64-00386A	PC / ABS	1
3-6	CAP-FRONT	BA67-00160A	PC / ABS	1
3-7	TAPE_CAP_FRONT	BA02-00013A	COPPER TAPE	2
4	BOARD			1
4-1	AUDIO BOARD	BA92-01945B		1
4-2	DC-DC BOARD	BA96-01460A		1
4-3	LCD INTERFACE BOARD	BA39-00336A		1
4-4	MAIN BOARD	BA41-00316A		1
4-5	BLUE_TOOTH BOARD			
5	UNIT_DOOR HDD	BA75-00953A		1
5-1	DOOR-HDD	BA64-00387A	PC / CF	1
5-2	INSULATOR-HDD OPEN	BA62-00196A	PET T0.2	1
5-3	RUBBER-HDD SHOCK	BA73-00238A	PORON 6X6X2.1	2
6	UNIT_HOUSING BOTTOM	BA75-00949A		1
6-1	GASKET-VGA	BA63-00371A	4X20X0.3T	1
6-2	GASKET-USB	BA63-00029A	4X9X1.5T	2
6-3	GASKET-LCD BOARD	BA63-00369A	6X11X6T	1
6-4	WIRELESS-ANT AUX	BA42-00025A	L 260	1
6-5	WIRELESS-ANT MAIN	BA42-00026A	L260	1
6-6	SCREW MACHINE	6001-001680	M2.0 X 2.5,CH,YEL,+,NYLOK	1

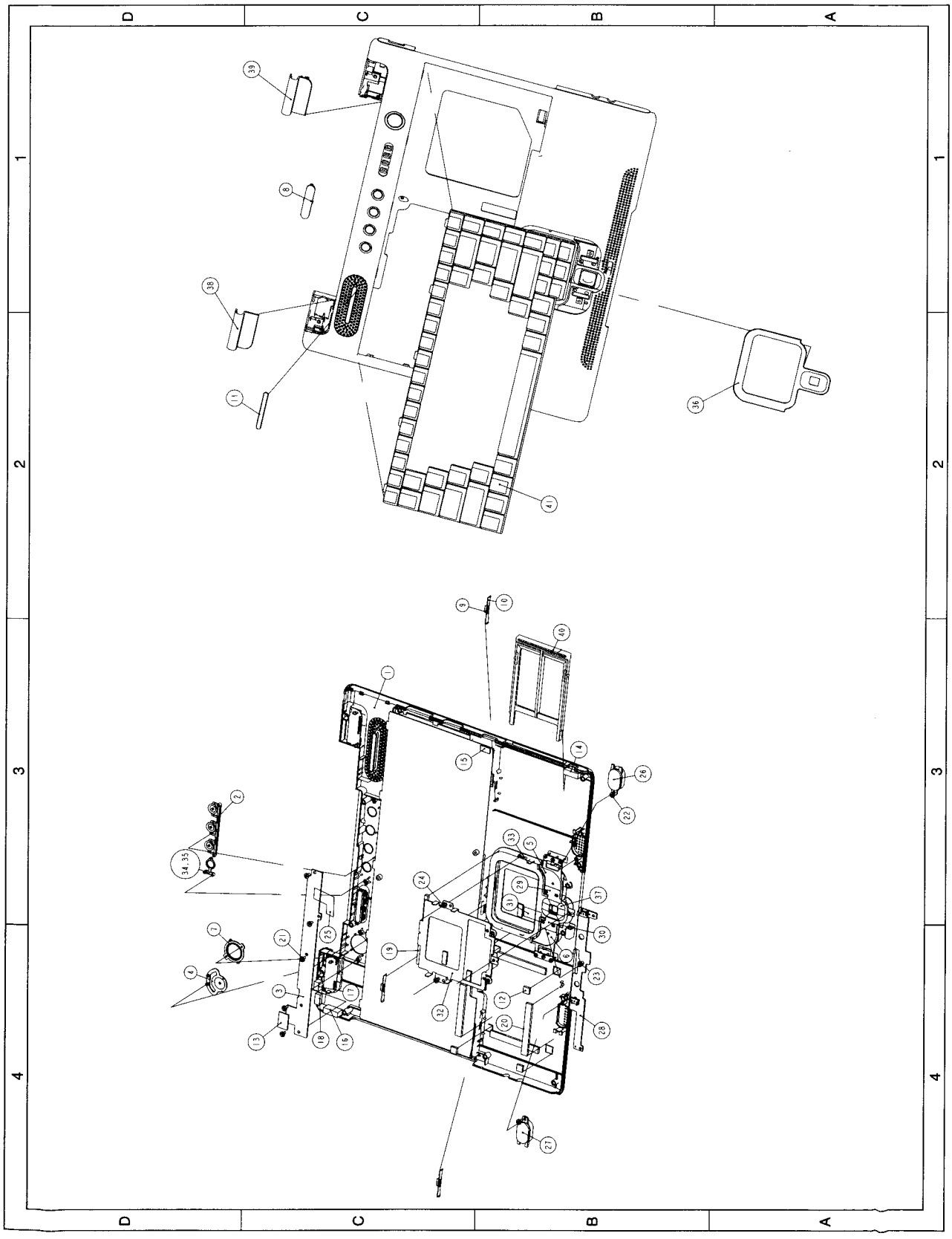
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY
6-7	HOUSING-BOTTOM	BA61-00532A	Mg T0.8	1
6-8	KNOB-BATT	BA64-00188A	PC / ABS	2
6-9	INSULATOR-MEMORY BOARD	BA62-00193A	PET	1
6-10	LINK BATT, L	BA72-00640A	POM	1
6-11	LINK BATT, R	BA72-00641A	POM	1
6-12	RUBBER-HDD SUPPORT	BA73-00262A	PORON 6X10X2.1	7
6-13	RUBBER-HDD SHOCK	BA73-00238A	PORON 6X6X2.1	1
6-14	RUBBER-BOTTOM	BA73-00253A	PORON SRS	1
6-15	RUBBER-SPONGE MEMORY	BA73-00254A	RUBBER SPONGE	2
6-16	RUBBER-FOOT SYS	BA73-00165A	SILICONE	3
6-17	RUBBER-FOOT R	BA73-00237A	SILICONE	2
6-18	BRKT-KENSINGTON	BA61-00526A	STS304 T0.5	1
6-19	SPRING-BATTERY	BA61-00101A	SWP	1
7	UNIT_DOOR-MEMORY	BA75-00956A		1
7-1	DOOR-MEMORY	BA64-00388A	AL T0.5	1
7-2	GASKET-MEMORY UPPER	BA63-00236A	2X69X1.5T	3
7-3	INSULATOR-MEMORY	BA72-00448A	PET T0.2	1
7-4	GASKET-MEMORY FRONT	BA63-00370A	2X23X1.5T	2
7-5	SCREW MACHINE	6001-001682	M3.0 X L4.0,CH,N1,+,NYLOK	1
8	UNIT-DOOR-PCI	BA75-00957A		1
8-1	DOOR-PCI	BA64-00389A	AL T0.5	1
8-2	GASKET-MINI PCI	BA63-20016A	3X50X1.5T	4
8-3	INSULATOR-MINI PCI	BA72-01076A	PET T0.1	1
8-4	SCREW MACHINE	6001-001682	M3.0 X L4.0,CH,N1,+,NYLOK	1
9	SCREW_MACHINE	6001-001446	M2.0 X 2.5,CH,YEL,+,NYLOK	2
10	SCREW_MACHINE	6001-001650	M2.0 X L3.5,CH,WHT,+,NYLOK	11
11	SCREW_MACHINE	6001-001649	M2.0 X 4.0,BH,WHT,+,NYLOK	2
12	SCREW_MACHINE	6001-001571	M2.0 X 3.0,CH,BLK,+,NYLOK	4
13	THERMAL_MODULE	BA62-00213A		1

4-4-3 System Exploded-LCD



NO	NAME	CODE NO	SPECIFICATION	Q'TY
Unit_1	UNIT/HOUSING-BACK	BA75-00948A		1
1	HOUSING_BACK	BA61-00524A	MG T 0.85	1
2	INSYLATOR_INVERTER	BA62-00222A	PET T 0.2	1
3	INSYLATOR_PROTECTED	BA62-00223A	PRT T 0.1	1
Unit_2	UNIT/COVER-ANTENNA	BA75-00991A		1
4	COVER_ANTENNA	BA63-00273A	PC / ABS	1
5	SPRING_KNOB LCD	BA61-00631A		1
6	KNOB_LCD LATCH	BA64-00472A	PC / ABS	
Unit_3	UNIT/HOUSING-FRONT	BA75-00951A		1
7	HOUSING_LCD_FRONT	BA61-00539A	PC T 0.7	1
8	PLATE_MAGNET_LCD	BA70-00584A	ND T1.2 2.5K	1
9	RUBBER_SCREW_CAP	BA73-10004A	SILICONE	2
10	ANTENNA_L	BA42-00027A	STS301	1
11	ANTENNA_R	BA42-00028A	STS301	1
12	LCD	BA59-00910A		1
13	COAXIAL_CABLE	BA39-00335A		1
14	BRKT_LCD_L	BA61-00527A	STS301-1/2H T0.6	1
15	BRKT_LCD_R	BA61-00528A	STS301-1/2H T0.6	1
16	SCREW_MACHINE	6001-001467	PH_PLUS_M2_L3	8
17	HINGE_R	BA61-00532A	ZAMAK2	1
18	HINGE_L	BA61-00531A	ZAMAK2	1
19	X10_PCB_INVERT	BA44-00136A		1
20	SCREW_MACHINE	6001-001649	CH_PLUS_M2_L4	12
21	RUBBER-LCD FRONT	BA73-00269A	SILICONE	4
22	BADGE_SENS	BA67-00060A	NI T0.15	1

4-4-4 System Exploded Top Ass'y

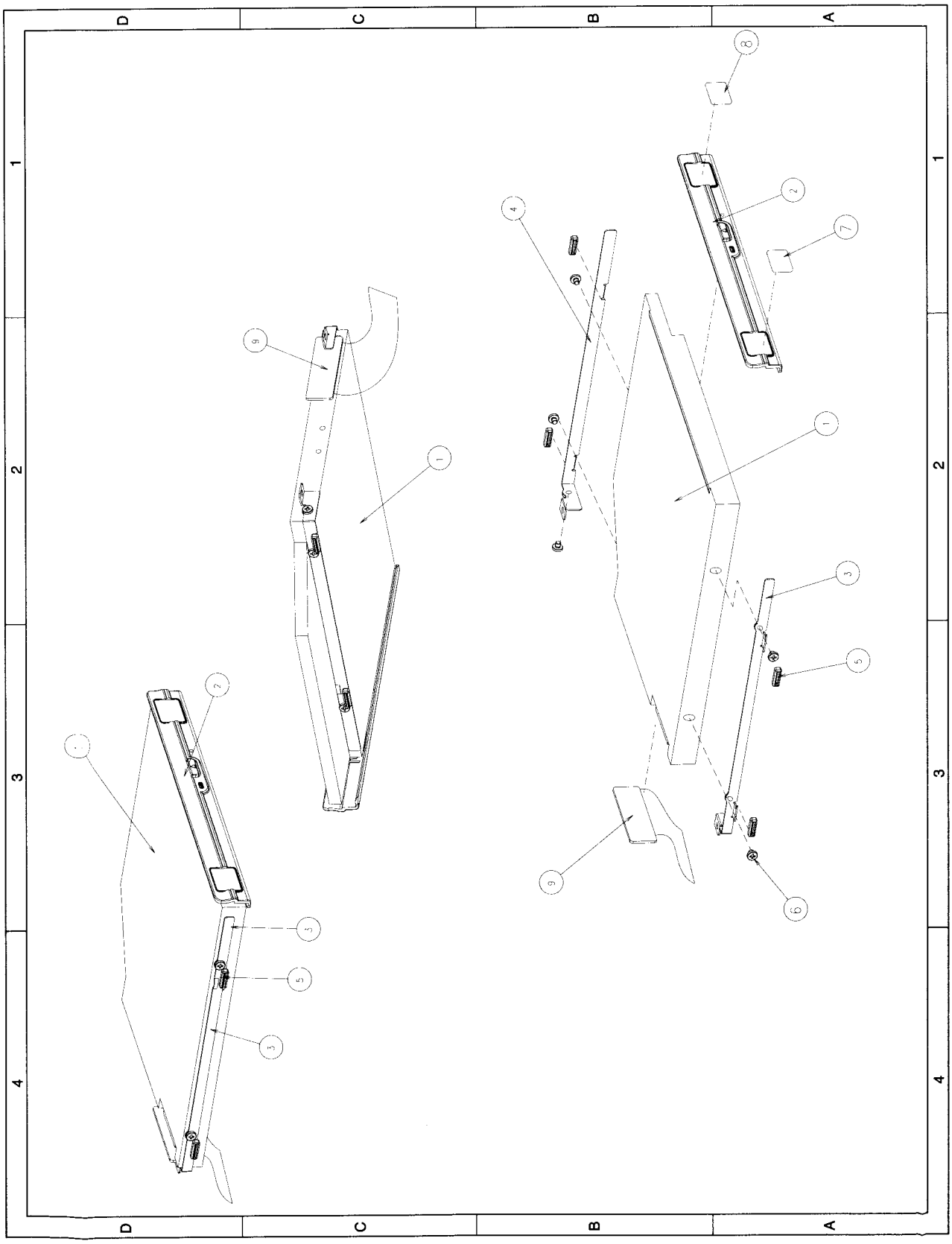


NO	PART NAME	CODE NO	SPECIFICATION	Q'TY
	UNIT_HOUSING TOP			1
1	HOUSING TOP	BA61-00538A	PC / CF(CP-4203F)	1
2	KNOB-CONTROL	BA64-00379A	PC / ABS(H1 1001 BG NP)	1
3	ON_TOP_BOARD	BA41-00332A		1
4	KNOB-POWER	BA64-00381A	PC / ABS(H1 1001 BG NP)	1
5	KNOB-TOUCHPAD L	BA64-00382A	PC / ABS(H1 1001 BG NP)	1
6	KNOB-TOUCHPAD R	BA64-00383A	PC / ABS(H1 1001 BG NP)	1
7	CAP-POWER	BA67-00159A	PC / ABS(H1 1001 BG NP)	1
8	LENS-INDICATOR	BA67-00193A	PC SHEET	1
9	KNOB-LOCK-KBD	BA64-00019A	POM	3
10	SPRING KBD	BA61-00004A	STS301-1/2H	3
11	BADGE-ORNAMENT	BA68-01810A	N1 0.15T	1
12	RUBBER-HDD SHOCK	BA73-00238A	PORON 2T	4
13	RUBBER-ON TOP	BA73-00263A	CR 0.8T	1
14	GASKET-1394 TOP	BA63-00373A	5X15X3.5T	1
15	GASKET-REAR F2	BA63-00132A	5X10X1.0T	1
16	GASKET-USB DVD	BA63-00375A	5X15X8T	1
17	GASKET-SPDIF TOP	BA63-00376A	5X8X6T	1
18	GASKET-SVHS	BA63-00377A	5X10X3.5T	1
19	GASKET-TOUCH PAD	BA63-00378A	3X30X2.5T	2
20	GASKET-HDD TOP	BA63-00379A	6X50X2.5T	4
21	GASKET-TAPPING	60003-001376	M2XL3.5	5
22	GASKET-TAPPING	60003-001377	M2XL5	2
23	GASKET-MACHINE	60001-001650	M2XL3.5	1
24	GASKET-MACHINE	6001-001180	M2XL2.5	4
25	ON-TOP FPC	BA41-00331A		1
26	SPEAKER-L			1
27	SPEAKER-R			1
28	TOUCHPAD-BOARD	BA41-00372A		1
29	INSULATOR_TOUCHPAD_L	BA62-00236A	PET 0.05T(SILVER)	1
30	INSULATOR_TOUCHPAD_R	BA62-00235A	PET 0.05T(SILVER)	1
31	FFC-FINGER	BA41-00348A		1
32	FINGER MODULE	BA59-00976A		1
33	WHEEL MOUSE MODULE	BA59-00975A		1
34	KNOB-WIRELESS LAN	BA64-00384A	PC 94HB(M/WHITE)(NP+확산제)	1
35	KNOB-WIRELESS LAN	BA64-00384B	PC 94HB(M/WHITE)(NP+확산제)	1
36	CAP-WHEEL	BA67-00189A	AL5056 0.3T	1
37	CAP_FINGER	BA67-00190A	AL5056 0.3T	1
38	CAP_HINGE_L	BA67-00161A	PC / ABS	1
39	CAP_HINGE_R	BA67-00162A	PC / ABS	1

NO	PART NAME	CODE NO	SPECIFICATION	Q'TY
40	COVER_DUMMY PCMCIA	BA63-00274A	PC / ABS	1
41	KEY_BOARD ASS'Y			1

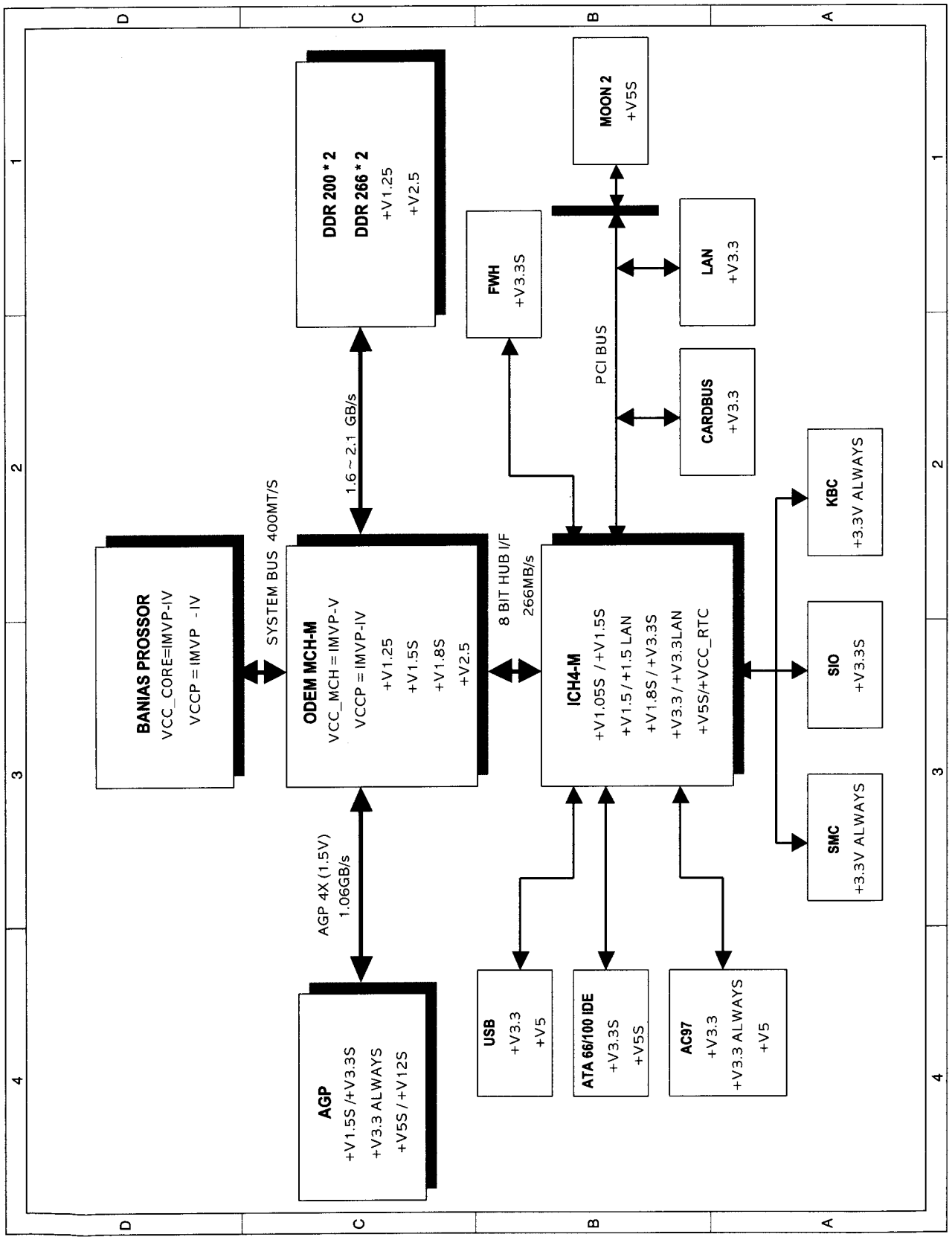
PART NAME	ITEM	REMARK
BA75-00950A	1 - 30, 33, 34, 36	WHEEL / WIRELESS
BA63-00274B	1 - 30, 33, 35, 36	WHEEL / USER
BA75-00950C	1 - 32, 34, 37	FINGER / WIRELESS
BA75-00950D	1 - 32, 35, 37	FINGER / USER

4-4-5 System Ass'y DVD Pack

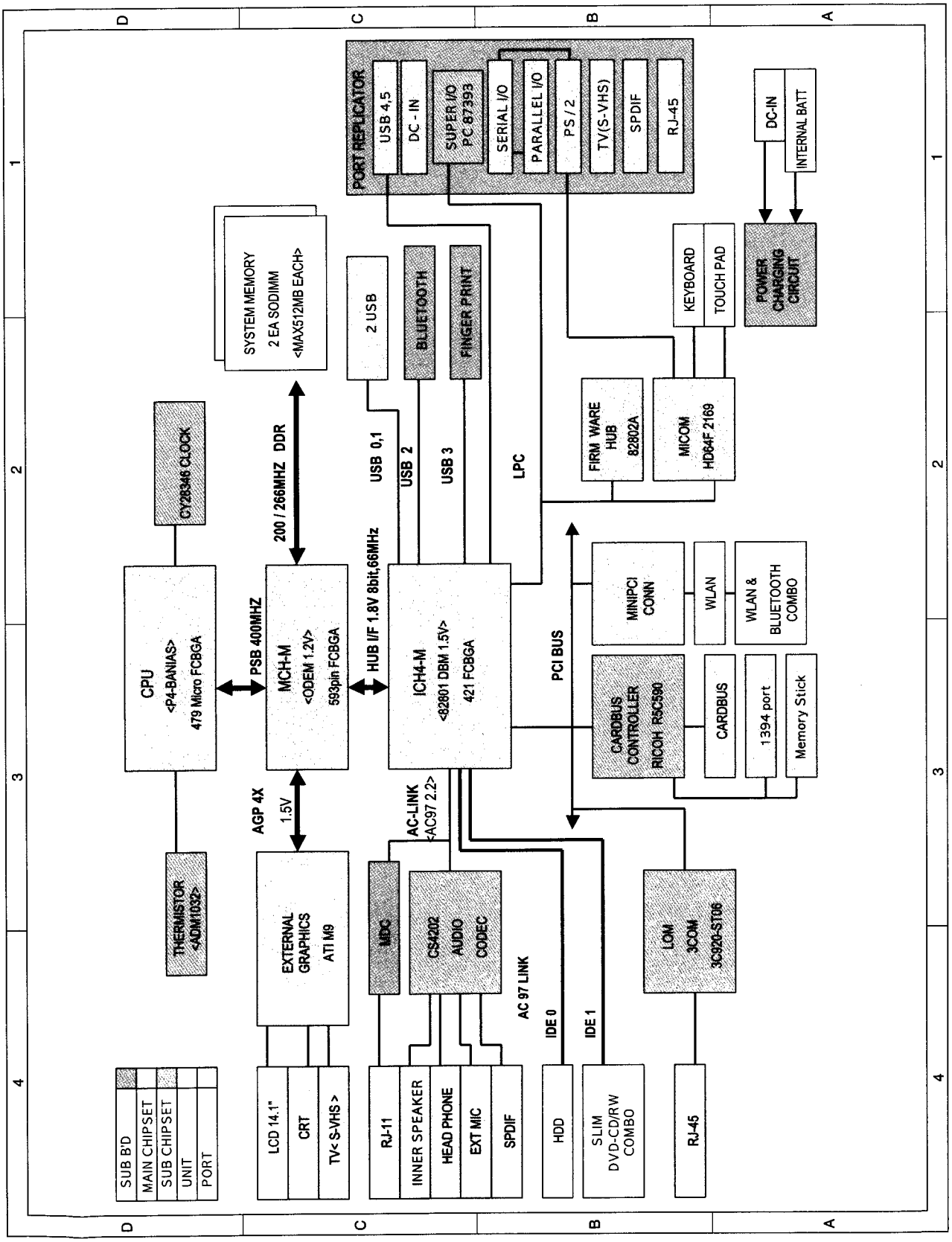


NO	PART NAME	CODE NO	SPECIFICATION	Q'TY
1	DVD COMBO	BA59-01058A	9.5mm	1
2	UNIT/BEZEL-DVD COMBO	BA75-00952A	PC / ABS 94VDO	1
3	BRKT-DVD L	BA61-00529A	STS3.4-1 / 2H T0.5	1
4	BRKT-DVD R	BA61-00530A	STS3.4-1 / 2H T0.5	1
5	RUBBER-DVD BRKT	BA73-00236A	SILICONE	4
6	SCREW-MASHINE	6001-001660	M2XL2 YEL, CH	5
7	LABEL-CD/RW	BA68-01688A	N1 T0.25	1
8	LABEL-DVD	BA68-01687A	N1 T0.25	1
9	DVD-FPC	BA41-00329A	PCB	1

5 Architectural Block Diagram



6 System Block Diagram



AQUILA

CPU :P4-BANIAS
Chip Set :MCH-M ODEM
Remarks :TEMP

Model Name	: AQUILA MAIN
PBA Name	: BA92-01774A
PCB Code	: BA41-#####A
Dev. Step	: SR
Revision	: 1.0

DRAW	CHECK	APPROVAL

Table of Contents

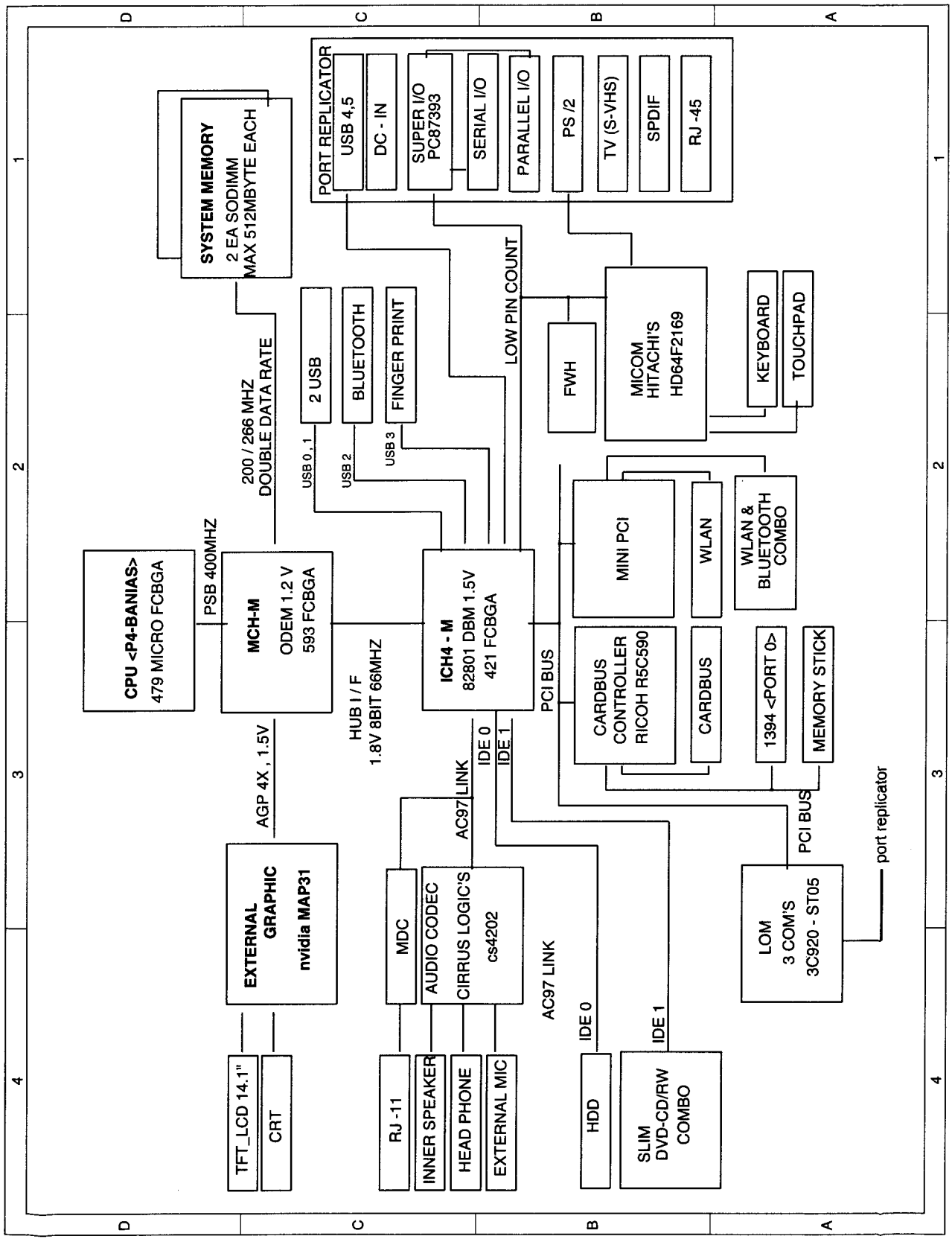
1. COVER --(SHEET1)
2. BLOCK DIAGM --(SHEET2)
3. BOARD INFORMATION --(SHEET3)
4. CLOCK GENERATOR --(SHEET4)
5. BANIAS CPU --(SHEET5/6)
6. THERMAL SENSOR --(SHEET7)
7. MCH-M <ODEM> --(SHEET8/9/10)
8. DDR SODIMM --(SHEET11)
9. DDR S/P TERMINATION --(SHEET12/13)
10. ICH-4 --(SHEET14/15/16)
11. FWH --(SHEET17)
12. NVIDIA MAP31 --(SHEET18/19/20)
13. LCD INTERFACE --(SHEET21)
14. CARDBUS & 1394 --(SHEET22/23)
15. MINI PCI --(SHEET24)
16. AUDIO --(SHEET25)
17. BAY CONNECTOR --(SHEET26)
18. MICOM --(SHEET27)
19. 3COM LAN &MDC --(SHEET28)
20. USB,CRT,MDC- --(SHEET29)
21. B'D TO B'D CONNECTOR --(SHEET30)
22. DDR & VIDEO POWER --(SHEET31)
23. MICOM & P12V & BBVL+ POWER --(SHEET32)
24. CHARGER --(SHEET33)
25. 1.5 2.5 3.3V POWER --(SHEET34)
26. CPU POWER --(SHEET35)
27. VCCP & MCH POWER --(SHEET36)
28. SWITCHED POWER --(SHEET37)
29. PORT REPLICATOR --(SHEET38)
30. MOUNT HOLE & REV --(SHEET39)
31. AUDIO PORT SUBBD --(SHEET40)

7 Schematic Diagrams and PCB Silkscreen

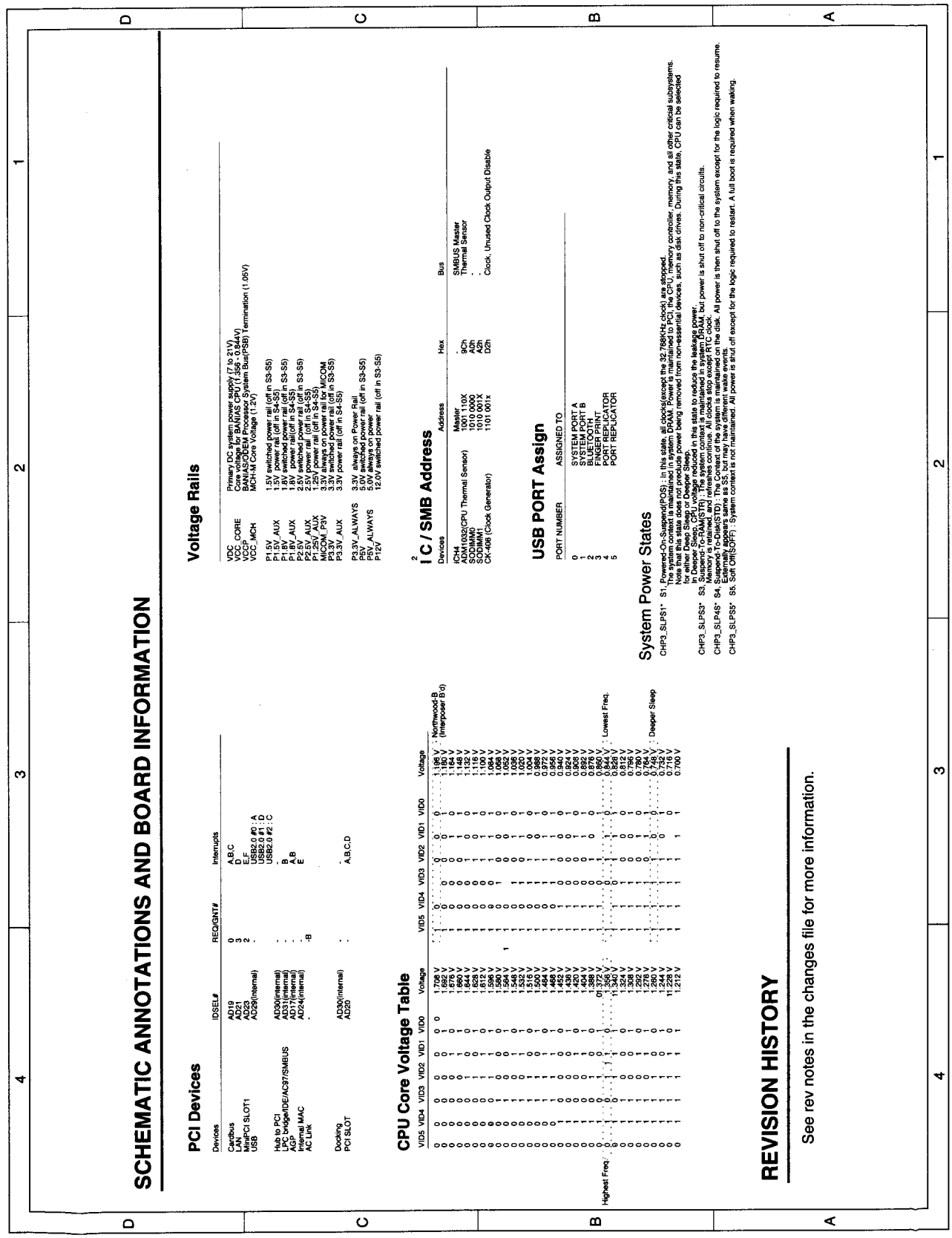
7-1 MAIN BOARD

7-1-1 Schematic Diagrams

7-1-1(a) Main Board Schematic Sheet 2 of 39(Operation Block Diagram)



7-1-1(b) Main Board Schematic Sheet 3 of 39(Board Information)



SCHEMATIC ANNOTATIONS AND BOARD INFORMATION

PCI Devices

Devices	IDSEL#	REQ/GNT#	Interrupts
Cardbus	AD19	0	A,B,C
LAN	AD23	3	D
MiniPCI SLOT1	AD23	2	E,F
USB	AD29(internal)	-	USB2.0 #0 : A USB2.0 #1 : D USB2.0 #2 : C
Hub to PCI	AD30(internal)	-	B
LPC bridge/IDE/AC97/SMBUS	AD31(internal)	-	A,B
AGP	AD17(internal)	-	E
Ethernet MAC AC Link	AD24(internal)	-B	
Docking PCI SLOT	AD30(internal) AD20	-	A,B,C,D

CPU Core Voltage Table

VID5	VID4	VID3	VID2	VID1	VID0	Voltage		VID5	VID4	VID3	VID2	VID1	VID0	Voltage	
0	0	0	0	0	0	1.708 V		1	0	0	0	0	0	1.196 V	Northwood-B
0	0	0	0	0	1	1.692 V		1	0	0	0	0	1	1.180 V	(Interposer B'd)
0	0	0	0	1	0	1.676 V		1	0	0	0	1	0	1.164 V	
0	0	0	0	1	1	1.660 V		1	0	0	0	1	1	1.148 V	
0	0	0	1	0	0	1.644 V		1	0	0	1	0	0	1.132 V	
0	0	0	1	0	1	1.628 V		1	0	0	1	0	1	1.116 V	
0	0	0	1	1	0	1.612 V		1	0	0	1	1	0	1.100 V	
0	0	0	1	1	1	1.596 V		1	0	0	1	1	1	1.084 V	
0	0	1	0	0	0	1.580 V		1	0	1	0	0	0	1.068 V	
0	0	1	0	0	1	1.564 V		1	0	1	0	0	1	1.052 V	
0	0	1	0	1	0	1.548 V		1	0	1	0	1	0	1.036 V	
0	0	1	0	1	1	1.532 V		1	0	1	0	1	1	1.020 V	
0	0	1	1	0	0	1.516 V		1	0	1	1	0	0	1.004 V	
0	0	1	1	0	1	1.500 V		1	0	1	1	0	1	0.988 V	
0	0	1	1	1	0	1.484 V		1	0	1	1	1	0	0.972 V	
0	0	1	1	1	1	1.468 V		1	0	1	1	1	1	0.956 V	
0	1	0	0	0	0	1.452 V		1	1	0	0	0	0	0.940 V	
0	1	0	0	0	1	1.436 V		1	1	0	0	0	1	0.924 V	
0	1	0	0	1	0	1.420 V		1	1	0	0	1	0	0.908 V	
0	1	0	0	1	1	1.404 V		1	1	0	0	1	1	0.892 V	
0	1	0	1	0	0	1.388 V		1	1	0	1	0	0	0.876 V	
0	1	0	1	0	1	1.372 V		1	1	0	1	0	1	0.860 V	Lowest Freq.
0	1	0	1	1	0	1.356 V		1	1	0	1	1	0	0.844 V	
0	1	0	1	1	1	1.340 V		1	1	0	1	1	1	0.828 V	
0	1	1	0	0	0	1.324 V		1	1	1	0	0	0	0.812 V	
0	1	1	0	0	1	1.308 V		1	1	1	0	0	1	0.796 V	
0	1	1	0	1	0	1.292 V		1	1	1	0	1	0	0.780 V	
0	1	1	0	1	1	1.276 V		1	1	1	0	1	1	0.764 V	
0	1	1	1	0	0	1.260 V		1	1	1	1	0	0	0.748 V	Deeper Sleep
0	1	1	1	0	1	1.244 V		1	1	1	1	0	1	0.732 V	
0	1	1	1	1	0	1.228 V		1	1	1	1	1	0	0.716 V	
0	1	1	1	1	1	1.212 V		1	1	1	1	1	1	0.700 V	

Highest Freq.

Voltage Rails

VDC	Primary DC system power supply (7 to 21V)
VCC_CORE	Core voltage for CPU (1.35 - 1.484V)
VCCP	BANIAS/ODEM Processor System Bus(PSB) Termination (1.05V)
VCC_MCH	MCH-M Core Voltage (1.2V)
P1.5V	1.5V switched power rail (off in S3-S5)
P1.5V_AUX	1.5V power rail (off in S4-S5)
P1.8V	1.8V switched power rail (off in S3-S5)
P1.8V_AUX	1.8V power rail(off in S4-S5)
P2.5V	2.5V switched power rail (off in S3-S5)
P2.5V_AUX	2.5V power rail (off in S4-S5)
P1.25V_AUX	1.25V power rail (off in S4-S5)
MICOM_P3V	3.3V always on power rail for MICOM
P3.3V	3.3V switched power rail (off in S3-S5)
P3.3V_AUX	3.3V power rail (off in S4-S5)
P3.3V_ALWAYS	3.3V always on Power Rail
P5V	5.0V switched power rail (off in S3-S5)
P5V_ALWAYS	5.0V always on power
P12V	12.0V switched power rail (off in S3-S5)

I2C / SMB Address

Devices	Address	Hex	Bus
	Master		
ICH4			SMBUS Master
ADM1032(CPU Thermal Sensor)	1001 110X	9Ch	Thermal Sensor
SODIMM0	1010 0000	A0h	-
SODIMM1	1010 001X	A2h	-
CK-408 (Clock Generator)	1101 001x	D2h	Clock, Unused Clock Output Disable

USB PORT Assign

PORT NUMBER	ASSIGNED TO
0	SYSTEM PORT A
1	SYSTEM PORT B
2	BLUETOOTH
3	FINGER PRINT
4	PORT REPLICATOR
5	PORT REPLICATOR

System Power States

CHP3_SLPS1* S1, Powered-On-Suspend(POS) : In this state, all clocks(except the 32.768KHz clock) are stopped.
The system context is maintained in system DRAM. Power is maintained to PCI, the CPU, memory controller, memory, and all other critical subsystems.
Note that this state does not preclude power being removed from non-essential devices, such as disk drives. During this state, CPU can be selected for either Deep Sleep or Deeper Sleep.

CHP3_SLPS3* S3, Suspend-To-RAM(STR) : The system context is maintained in system DRAM, but power is shut off to non-critical circuits.
Memory is retained, and refreshes continue. All clocks stop except RTC clock.

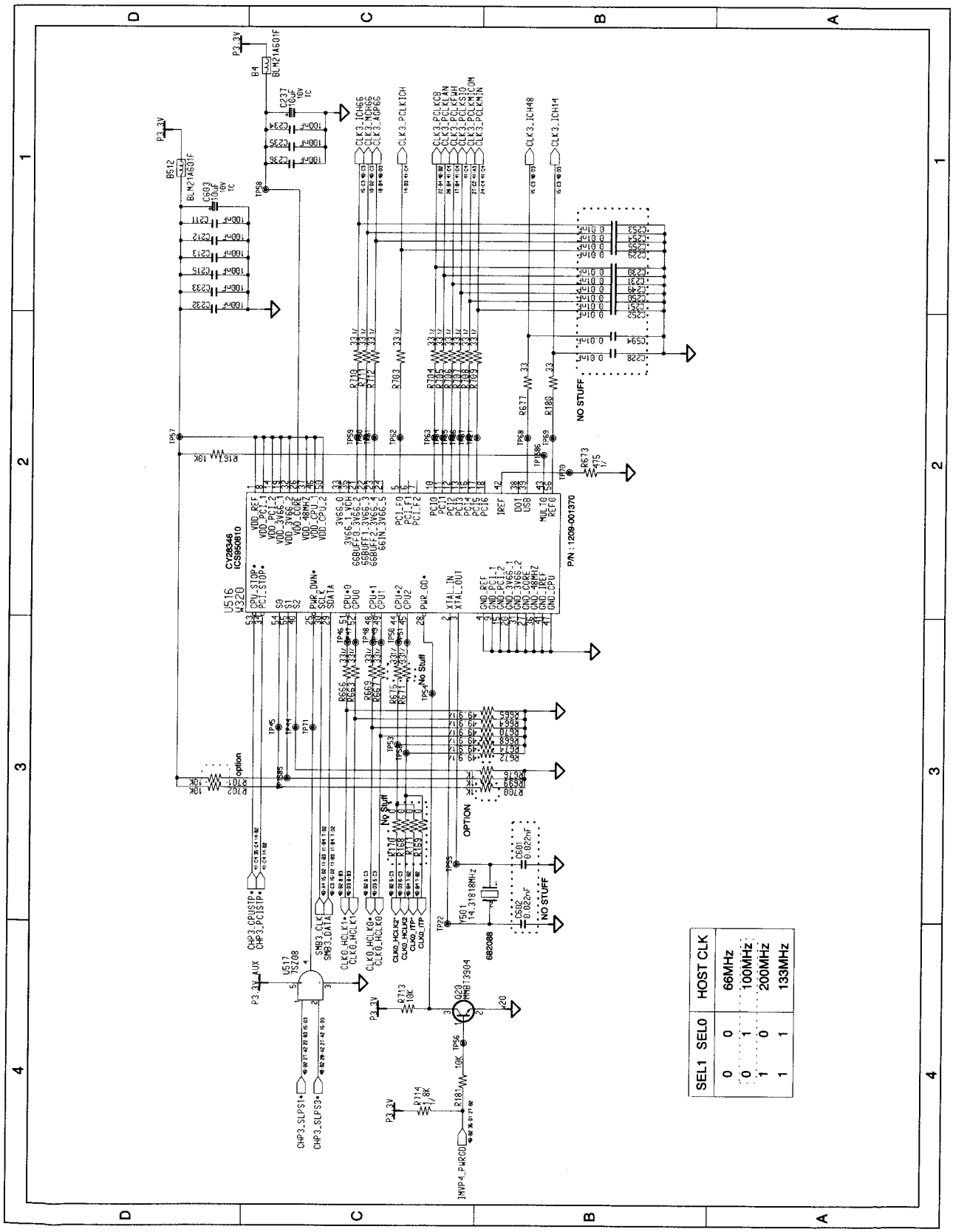
CHP3_SLPS4* S4, Suspend-To-Disk(STD) : The context of the system is maintained on the disk. All power is then shut off to the system except for the logic required to resume.

CHP3_SLPS5* S5, Soft Off(SOFF) : System context is not maintained. All power is shut off except for the logic required to restart. A full boot is required when waking.

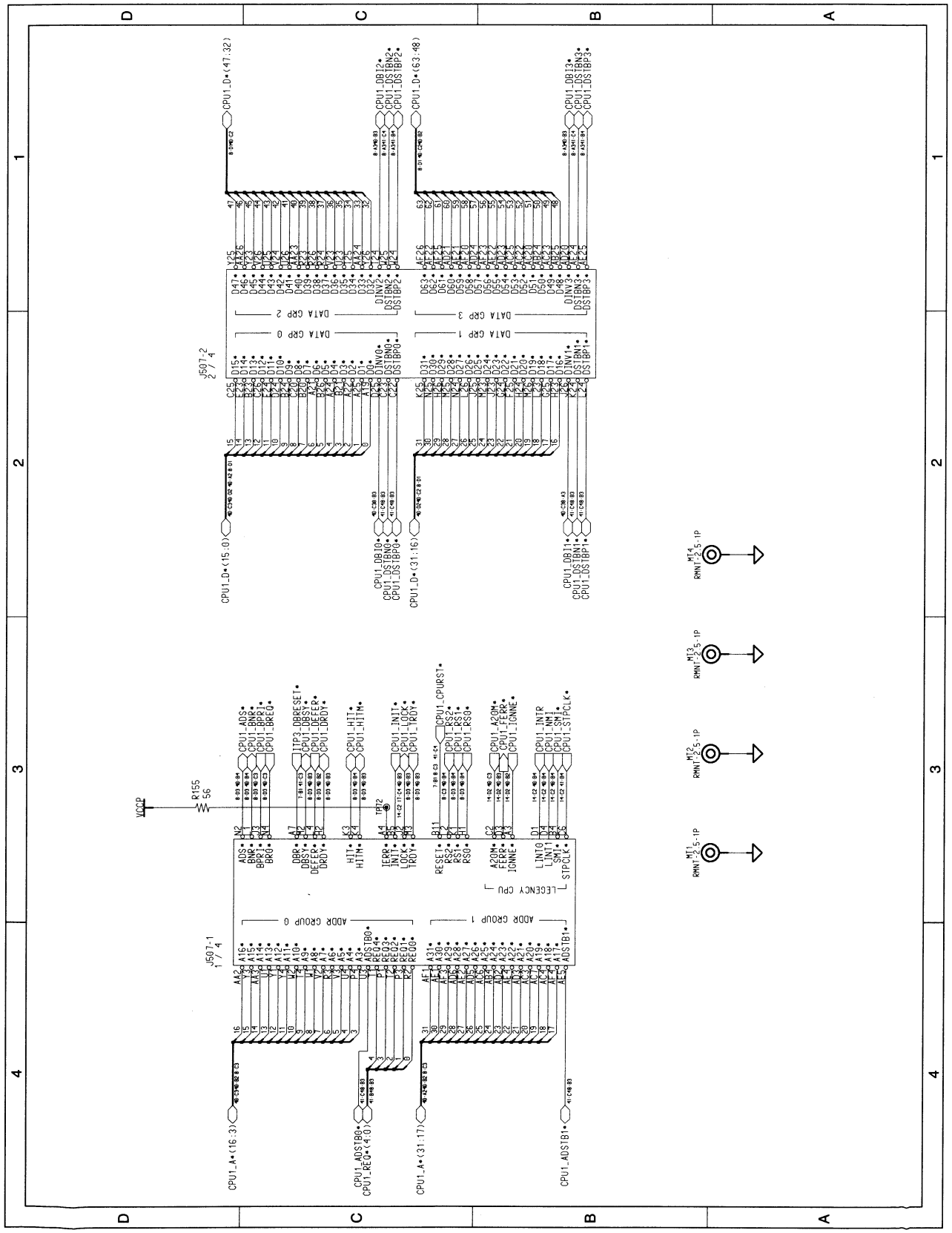
REVISION HISTORY

See rev notes in the changes file for more information.

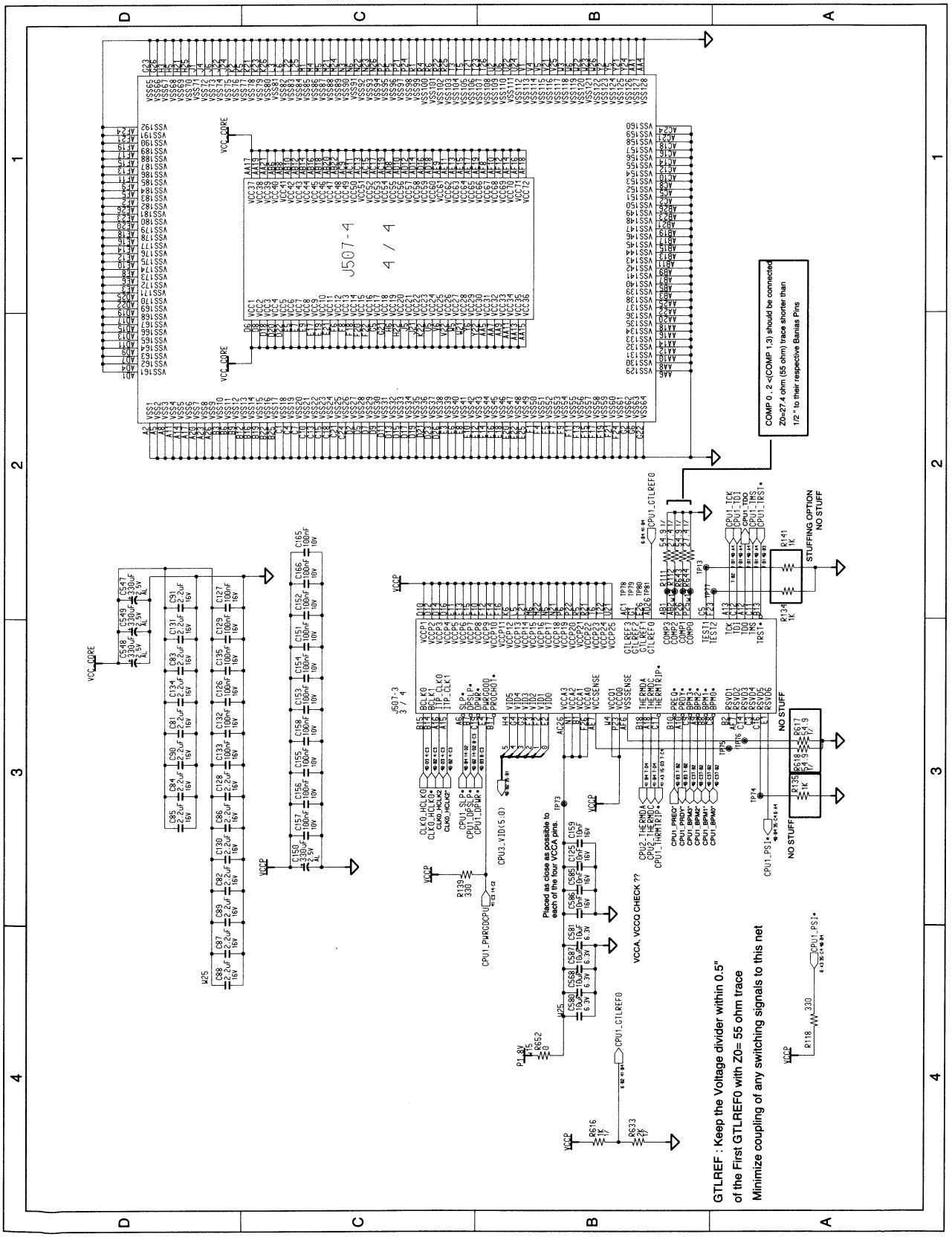
7-1-1(c) Main Board Schematic Sheet 4 of 39(Clock Generator)



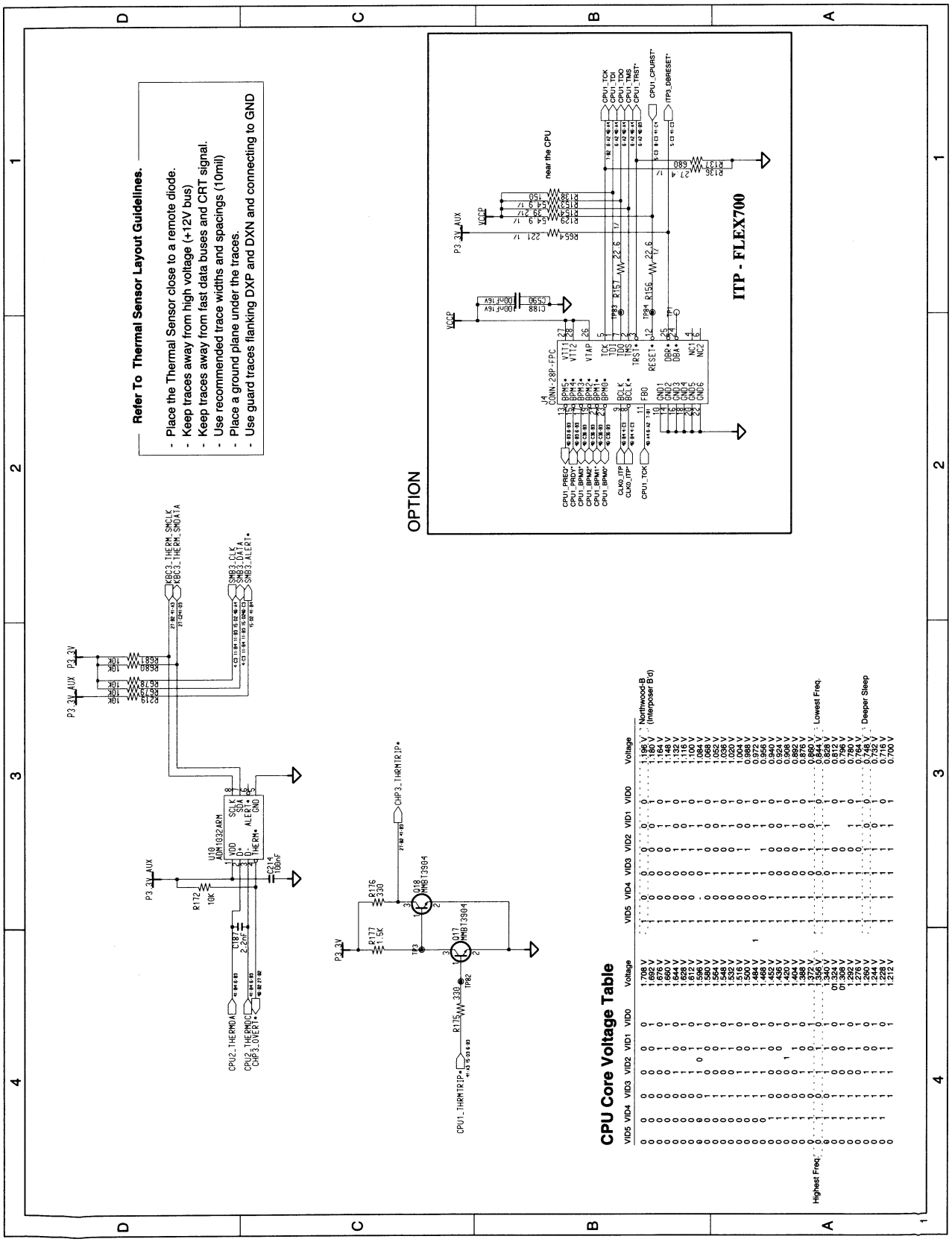
7-1-1(d) Main Board Schematic Sheet 5 of 39(Banias CPU)



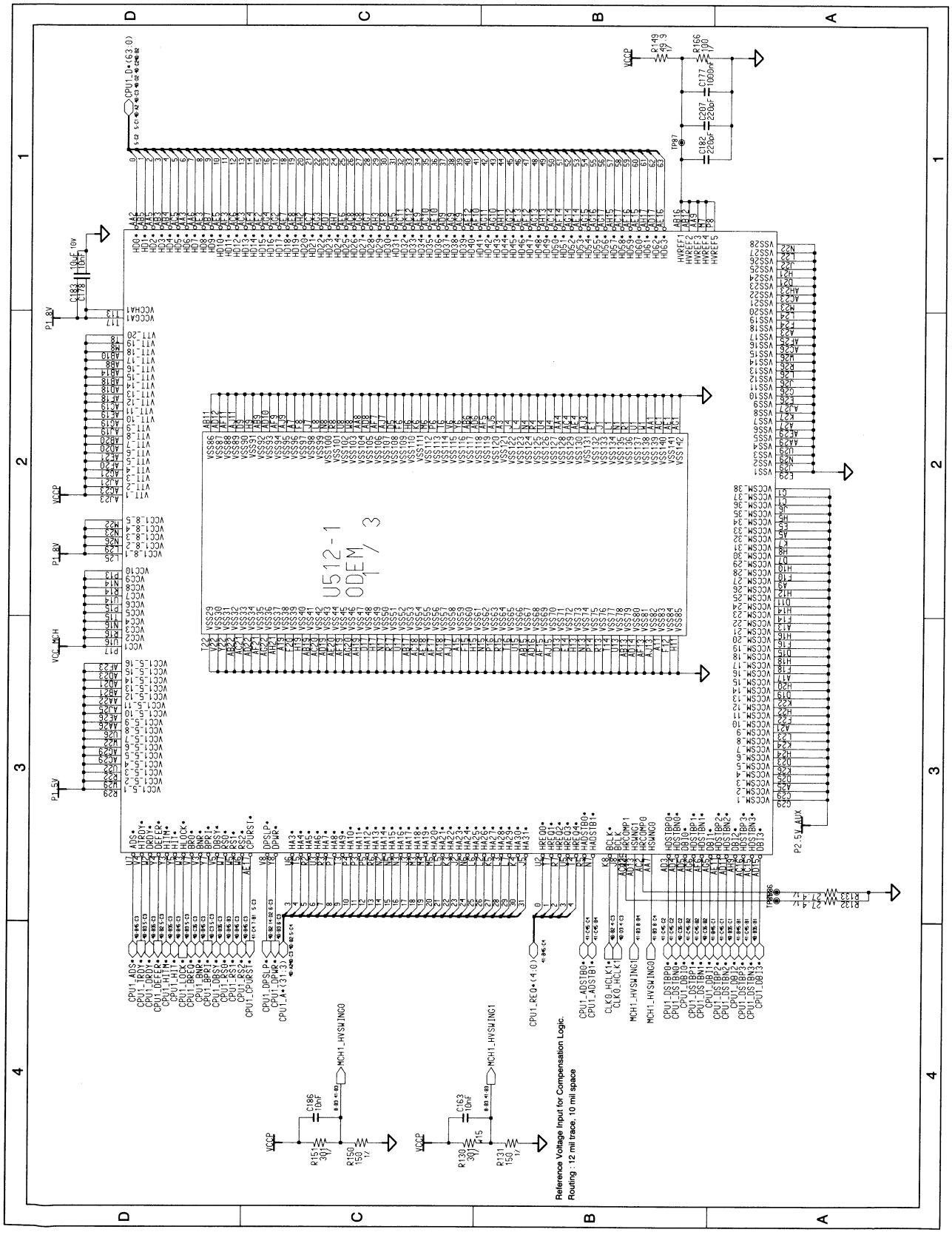
7-1-1(e) Main Board Schematic Sheet 6 of 39(Banias CPU)


J507-4
4 / 4
J507-3
3 / 4
COMP 0, 2 <(COMP 1,3) should be connected
Z0=27.4 ohm (55 ohm) trace shorter than
1/2" to their respective Banias Pins
STUFFING OPTION
NO STUFF
NO STUFF
NO STUFF
Placed as close as possible to
each of the four VCCA pins.
VCCA, VCCQ CHECK ??
GTLREF : Keep the Voltage divider within 0.5"
of the First GTLREF0 with Z0= 55 ohm trace
Minimize coupling of any switching signals to this net

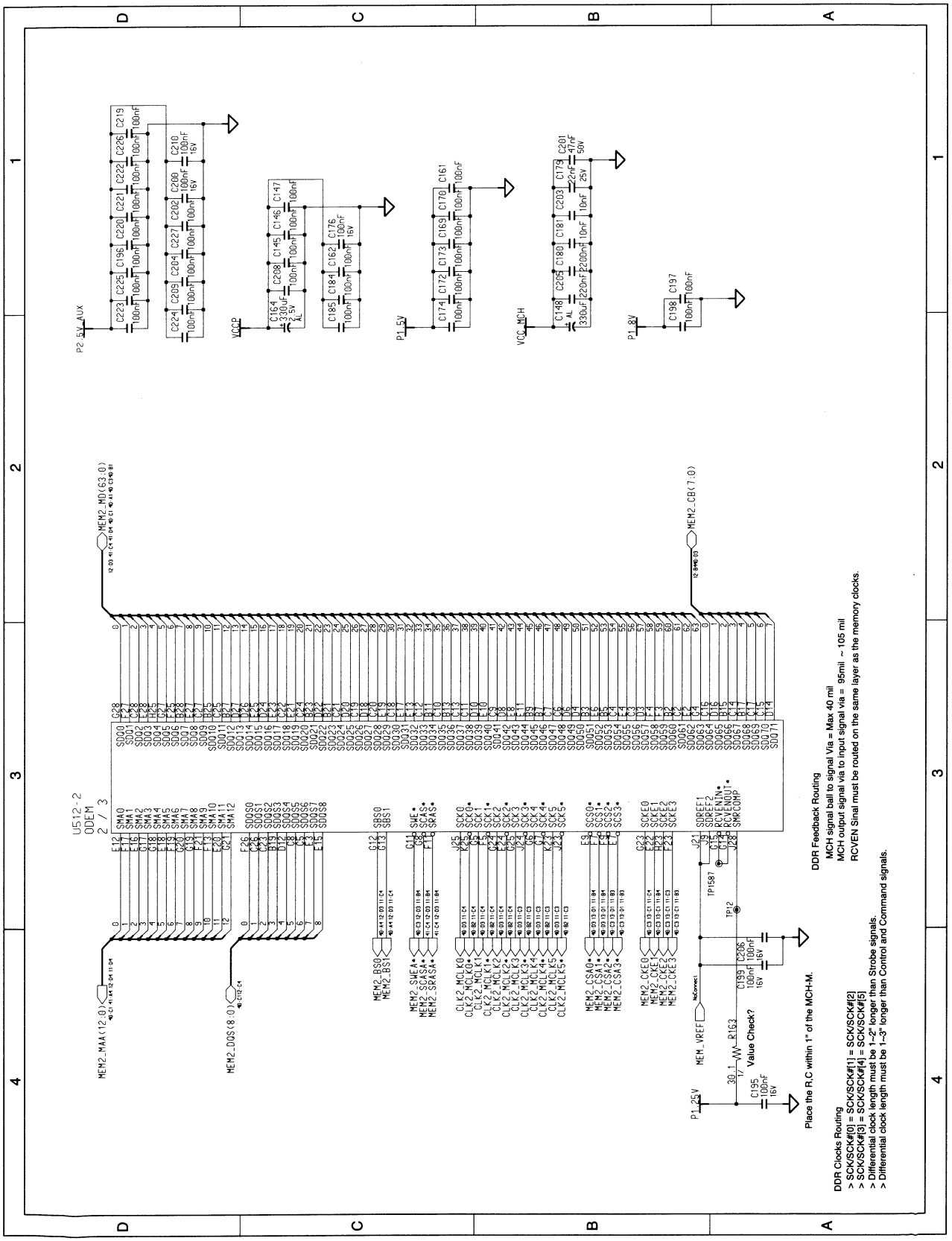
7-1-1(f) Main Board Schematic Sheet 7 of 39(Thermal Sensor & VID)


Refer To Thermal Sensor Layout Guidelines.
- Place the Thermal Sensor close to a remote diode.
- Keep traces away from high voltage (+12V bus)
- Keep traces away from fast data buses and CRT signal.
- Use recommended trace widths and spacings (10mil)
- Place a ground plane under the traces.
- Use guard traces flanking DXP and DXN and connecting to GND
OPTION
ITP - FLEX700
near the CPU
CPU Core Voltage Table
Highest Freq.
Lowest Freq.
Deeper Sleep

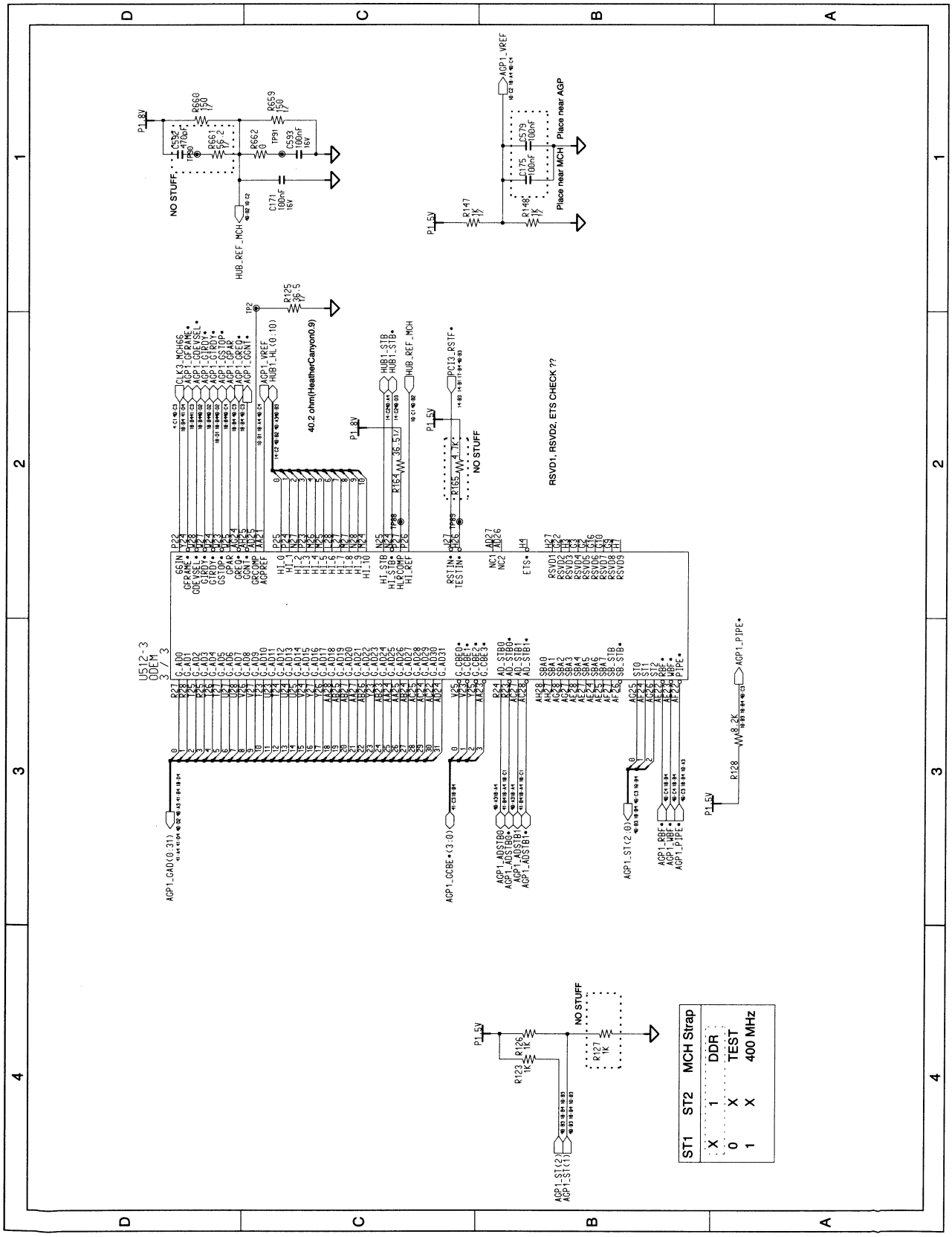
7-1-1(g) Main Board Schematic Sheet 8 of 39(MCH-M)



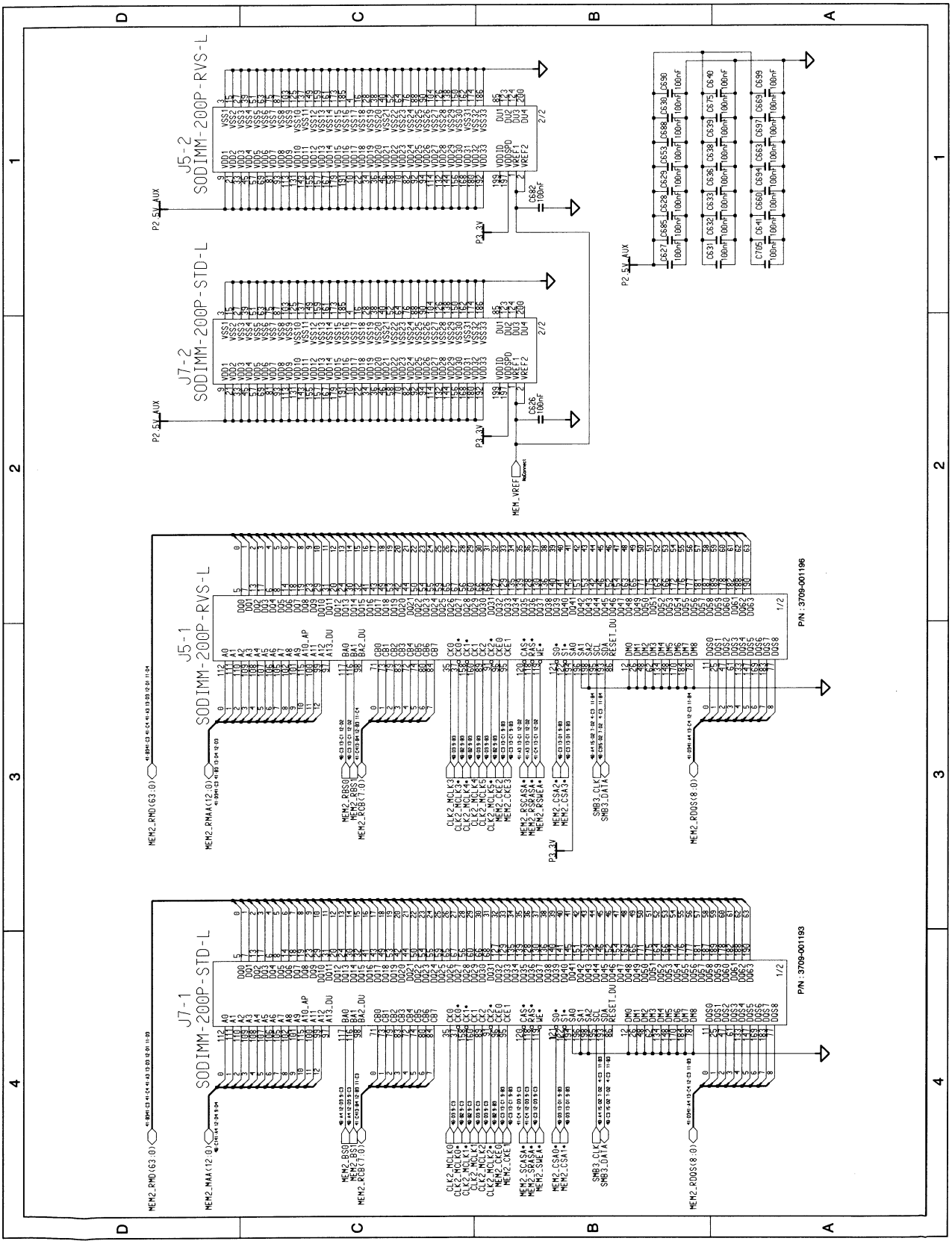
7-1-1(h) Main Board Schematic Sheet 9 of 39(MCH-M)



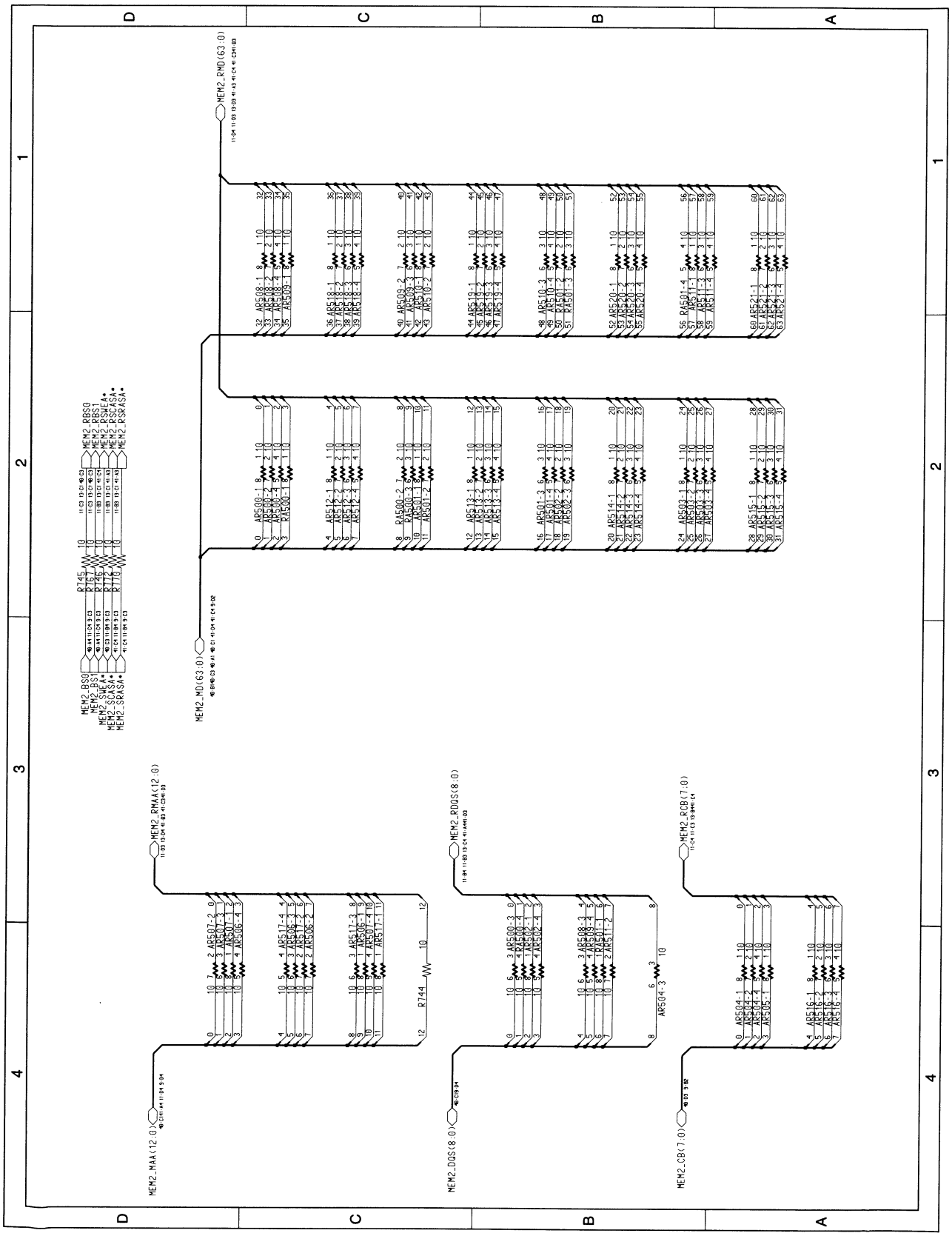
7-1-1(i) Main Board Schematic Sheet 10 of 39(MCH-M)



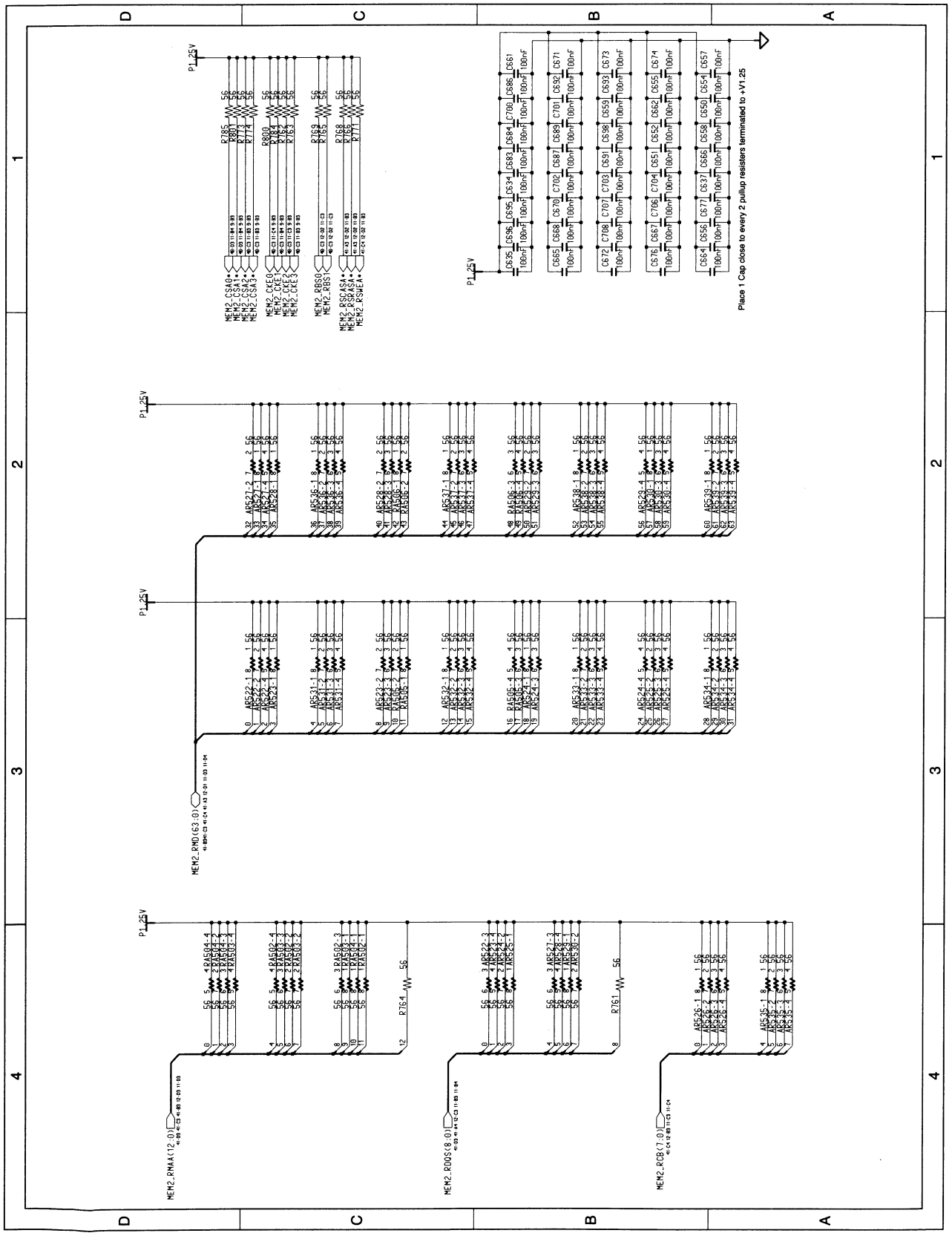
7-1-1(j) Main Board Schematic Sheet 11 of 39(DDR-SODIMM)



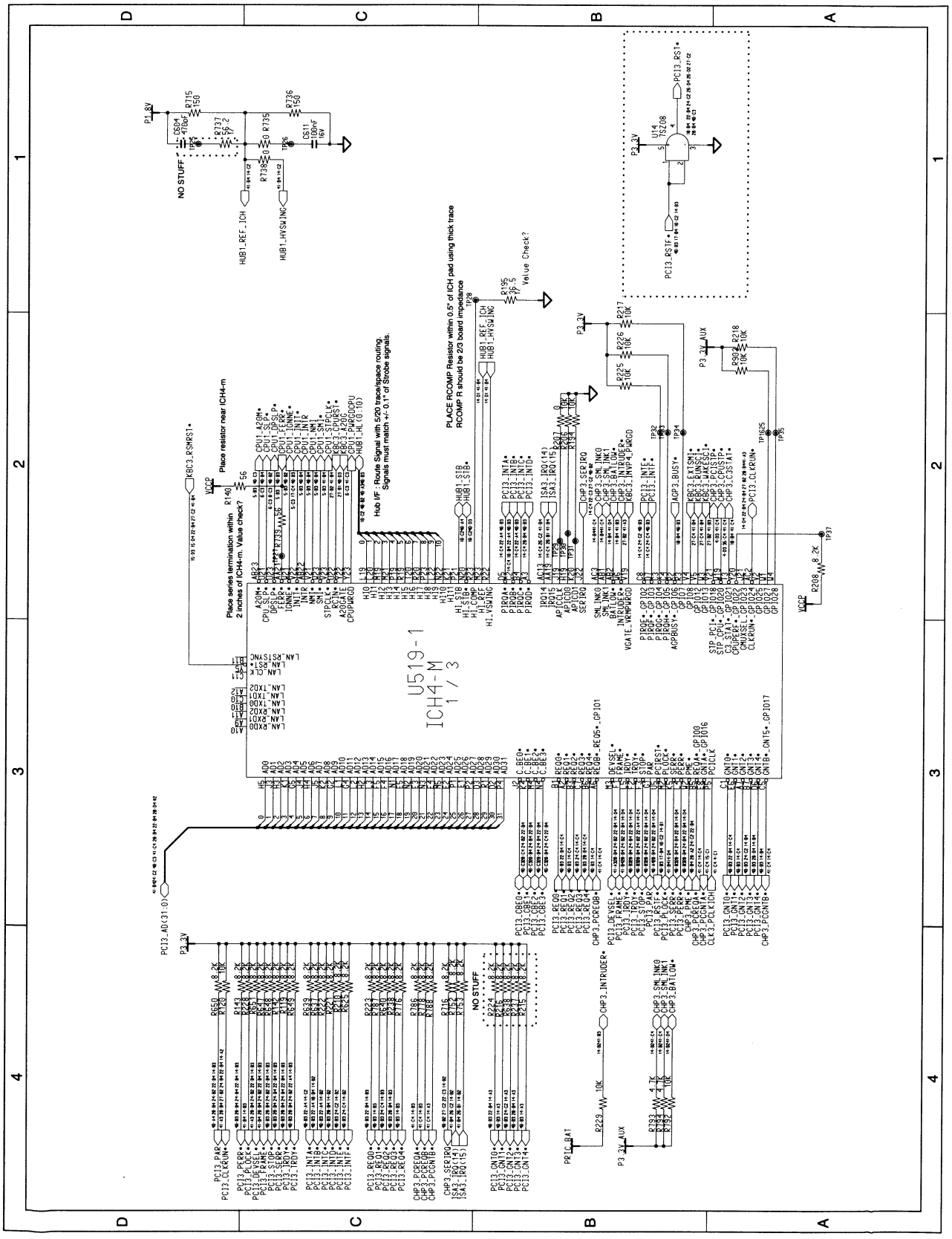
7-1-1(k) Main Board Schematic Sheet 12 of 39(DDR-S Termination)



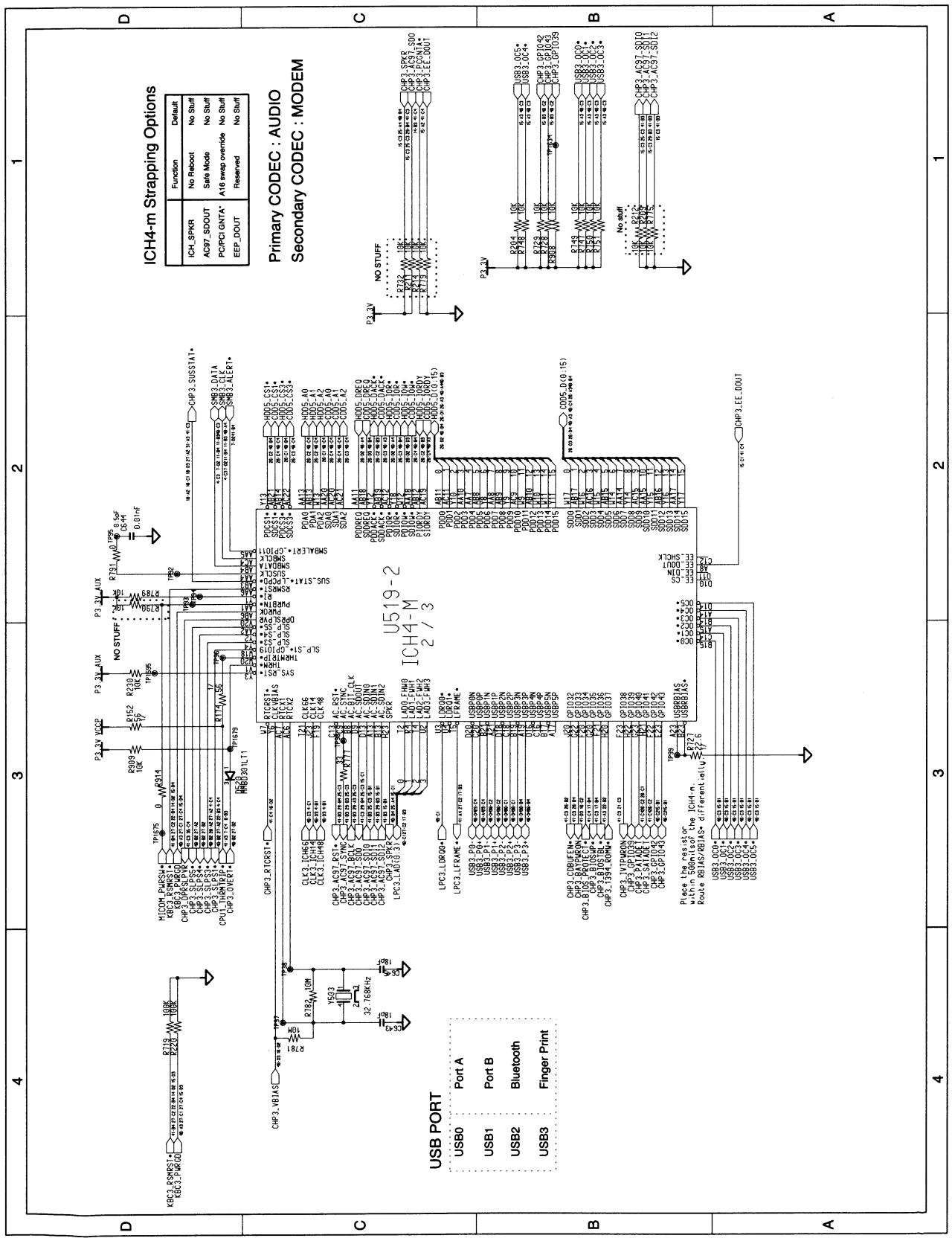
7-1-1(I) Main Board Schematic Sheet 13 of 39(DDR-P Termination)



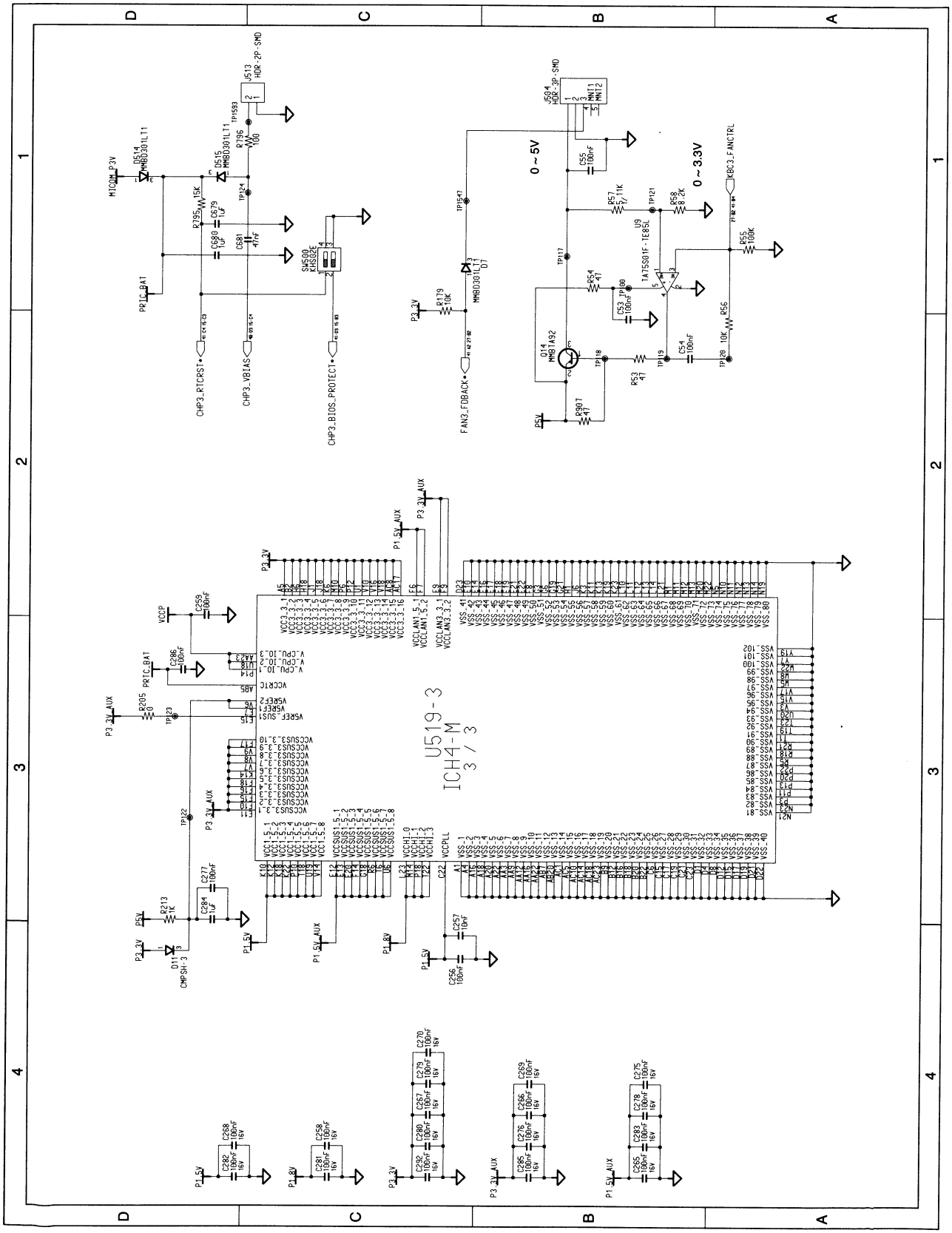
7-1-1(m) Main Board Schematic Sheet 14 of 39(ICH-4)



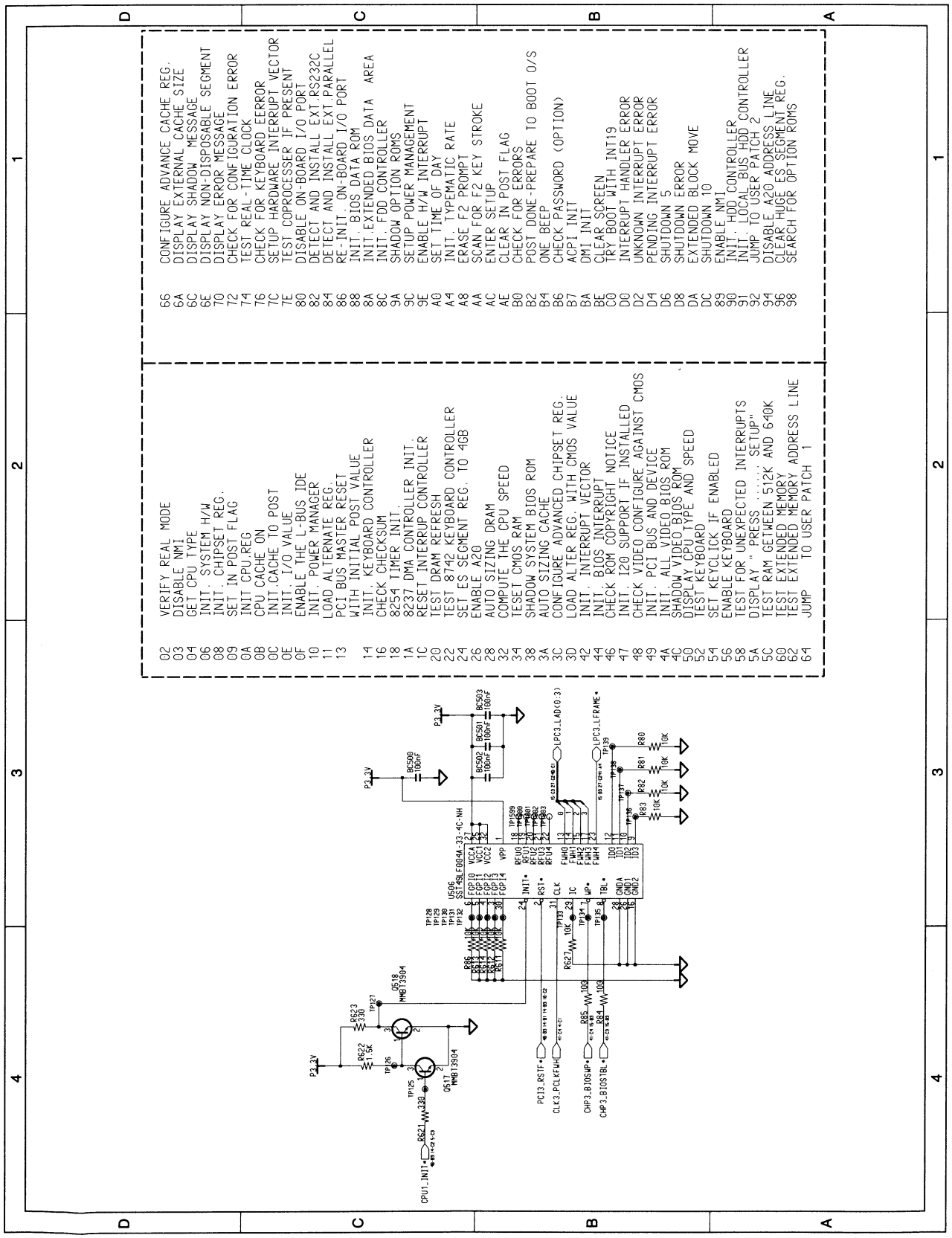
7-1-1(n) Main Board Schematic Sheet 15 of 39(ICH-4)



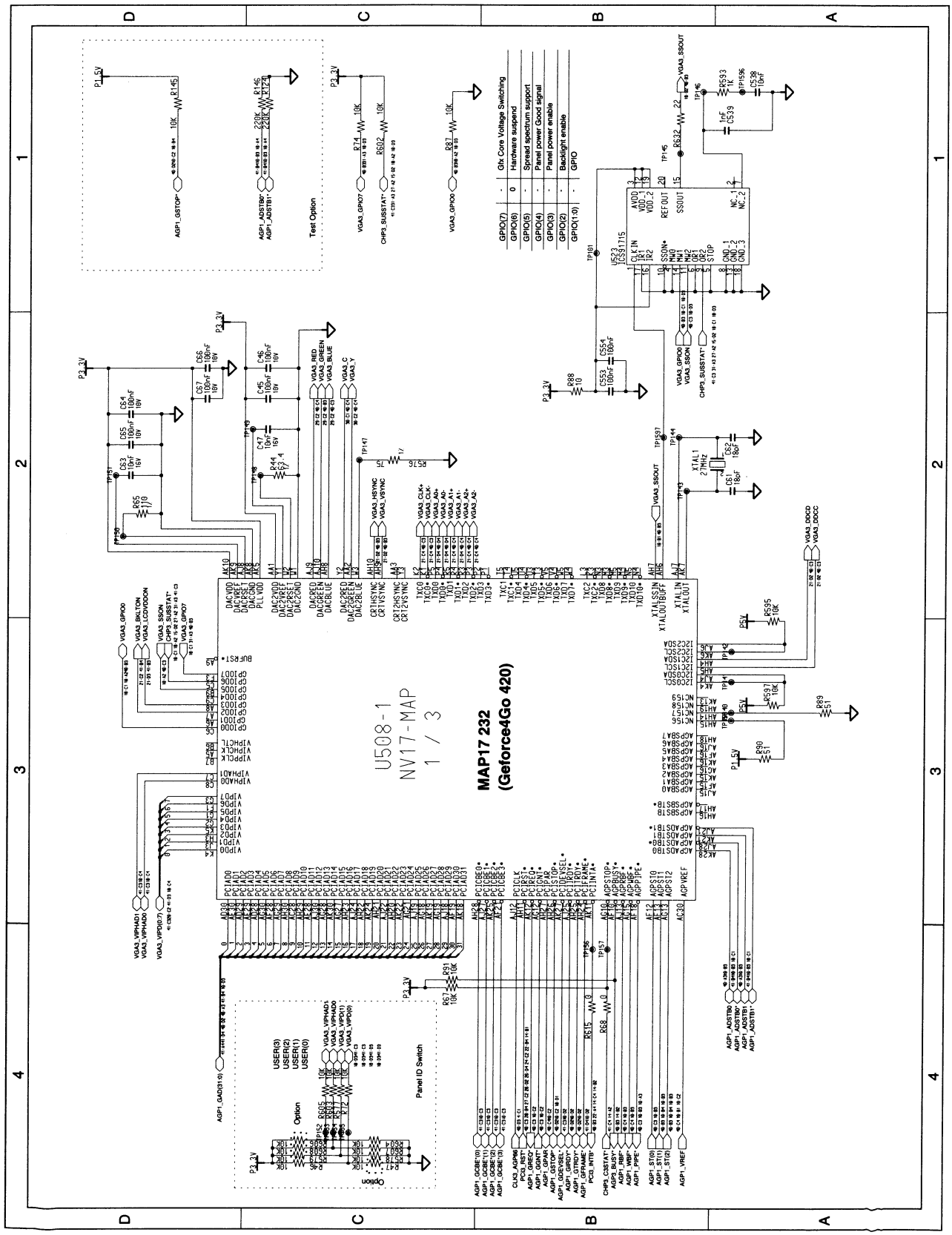
7-1-1(o) Main Board Schematic Sheet 16 of 39(ICH-4)



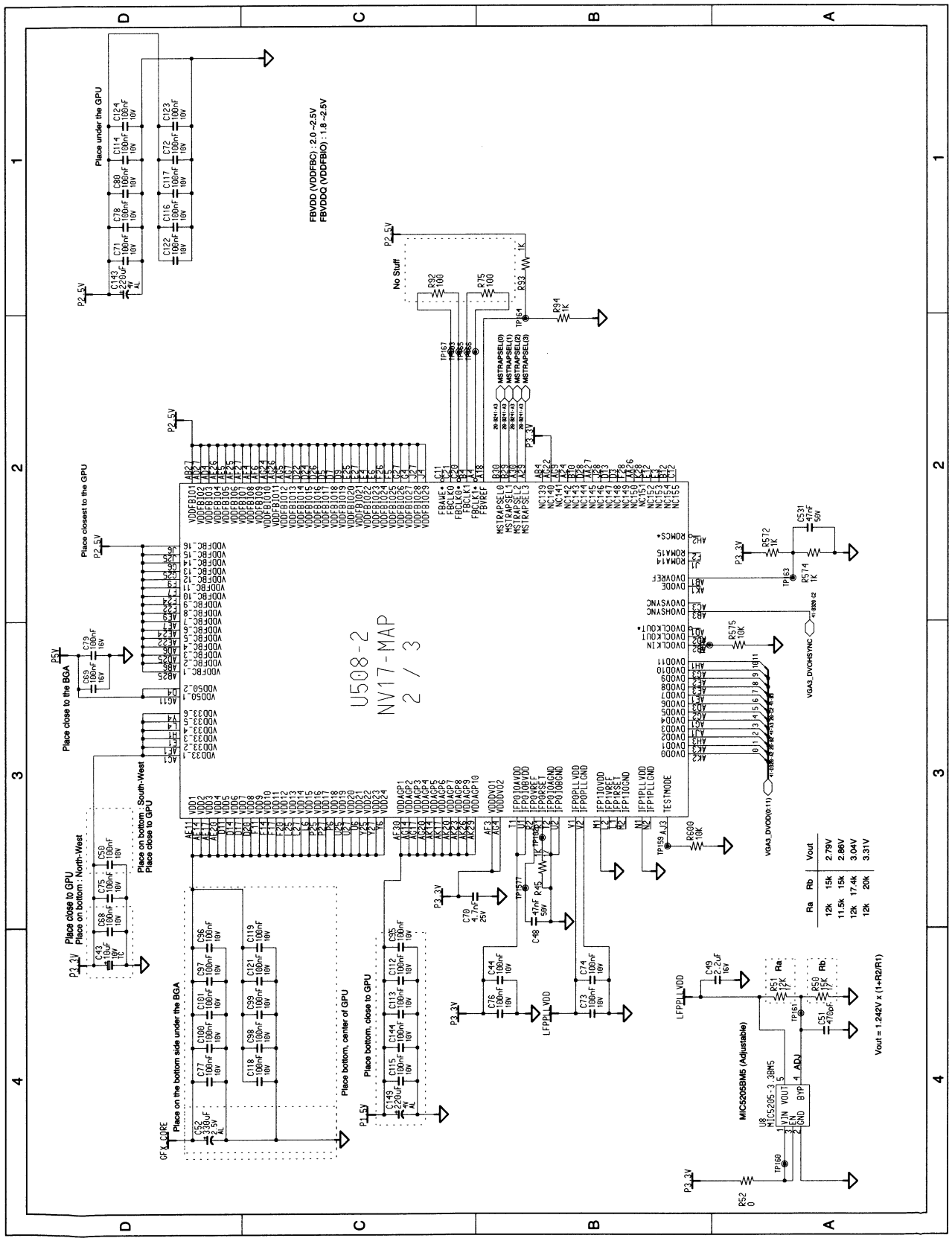
7-1-1(p) Main Board Schematic Sheet 17 of 39(Firmware HUB)



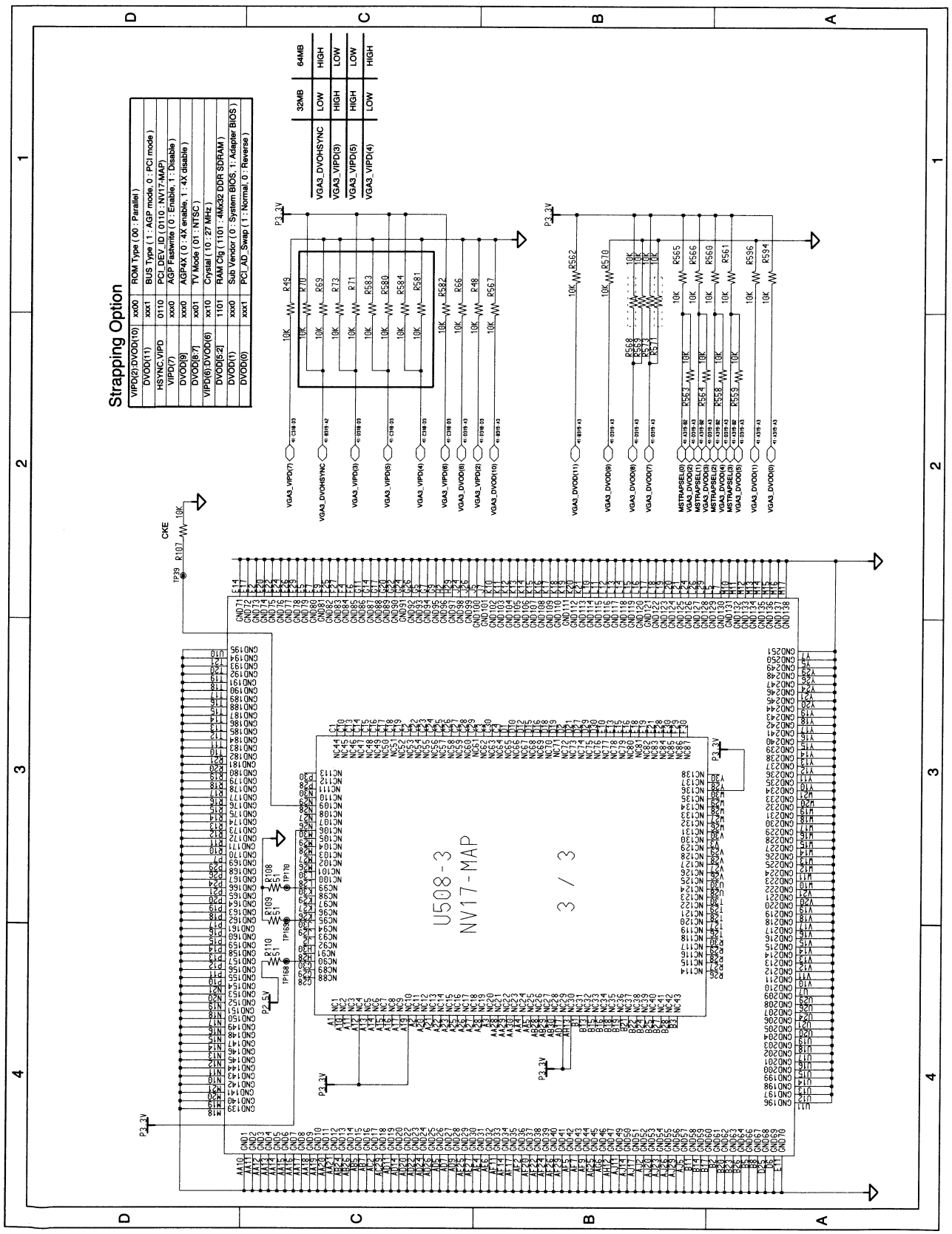
7-1-1(q) Main Board Schematic Sheet 18 of 39(Nvida Map31)



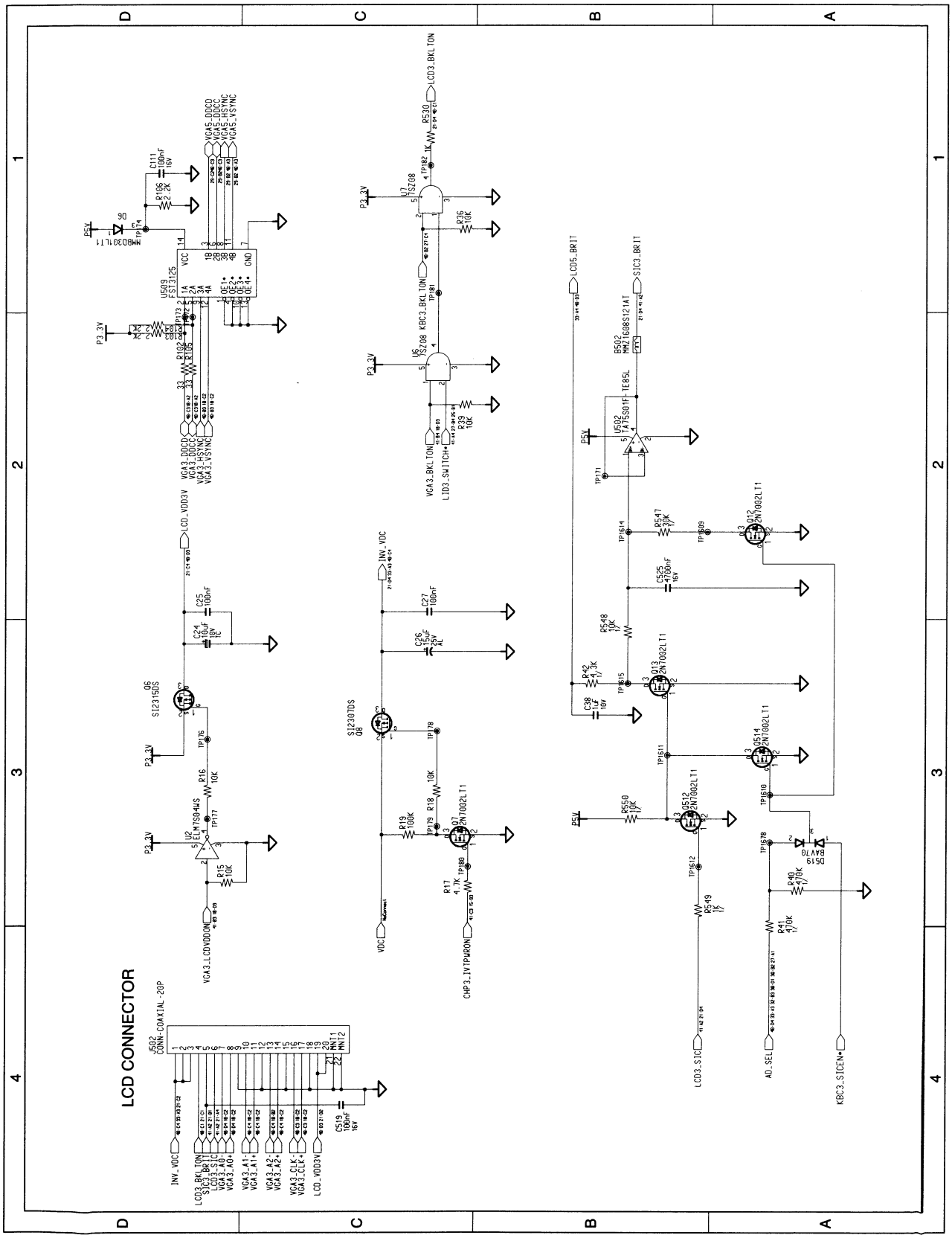
7-1-1(r) Main Board Schematic Sheet 19 of 39(Nvidia Map31)



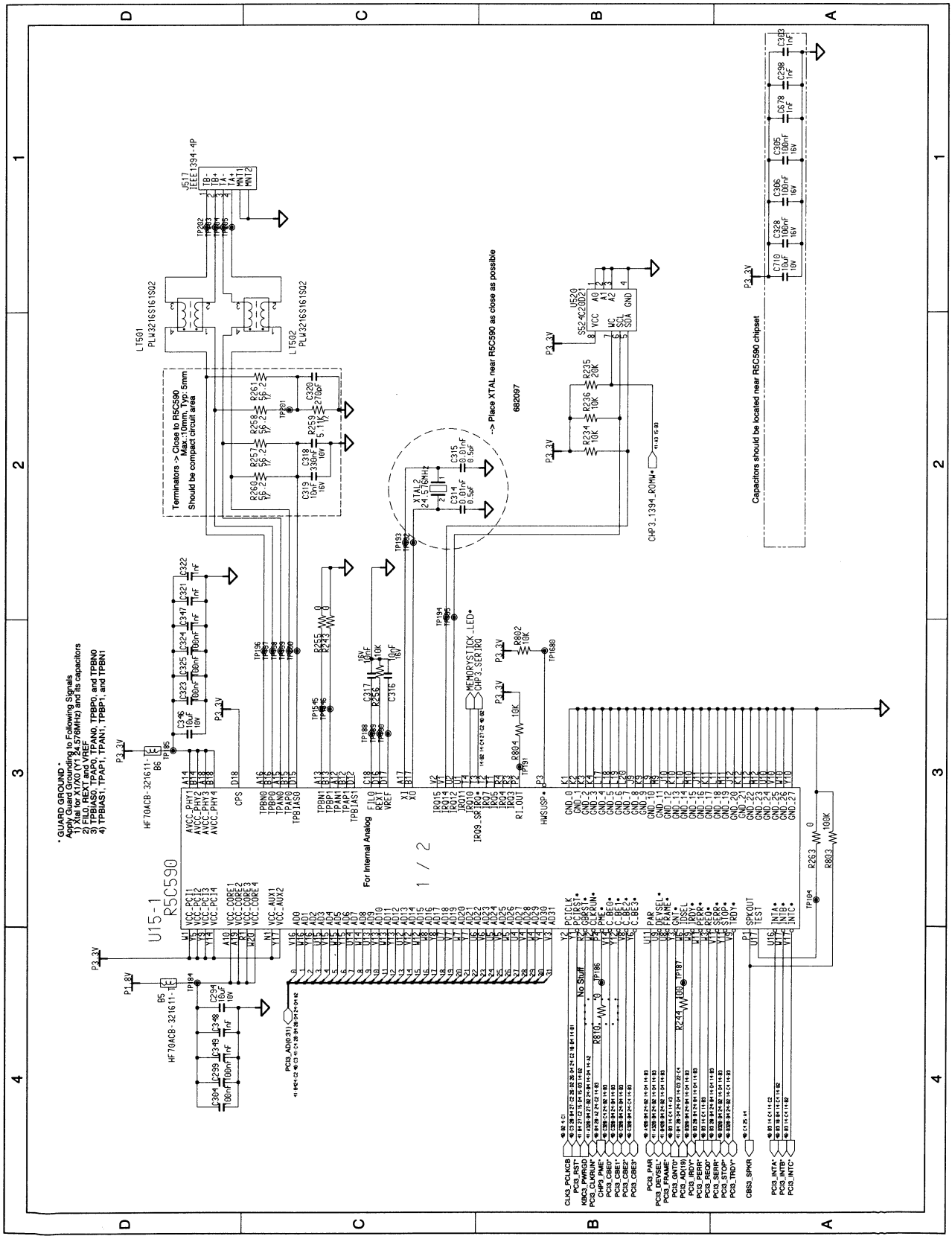
7-1-1(s) Main Board Schematic Sheet 20 of 39(Nvidia Map31)


Strapping Option
VIPD(2):DVOD(10) xx00 ROM Type (00 : Parallel)
DVOD(11) xxx1 BUS Type (1 : AGP mode, 0 : PCI mode)
HSYNC:VIPD 0110 PCI_DEV_ID (0110 : NV17-MAP)
VIPD(7) xxx0 AGP Fastwrite (0 : Enable, 1 : Disable)
DVOD[9] xxx0 AGP4X (0 : 4X enable, 1 : 4X disable)
DVOD[8:7] xx01 TV Mode (01 : NTSC)
VIPD(6):DVOD(6) xx10 Crystal (10 : 27 MHz)
DVOD[5:2] 1101 RAM Cfg (1101 : 4Mx32 DDR SDRAM)
DVOD(1) xxx0 Sub Vendor (0 : System BIOS, 1 : Adapter BIOS)
DVOD(0) xxx1 PCI_AD_Swap (1 : Normal, 0 : Reverse)
32MB 64MB
VGA3_DVOHSYNC LOW HIGH
VGA3_VIPD(3) HIGH LOW
VGA3_VIPD(5) HIGH LOW
VGA3_VIPD(4) LOW HIGH
U508-3
NV17-MAP
3 / 3

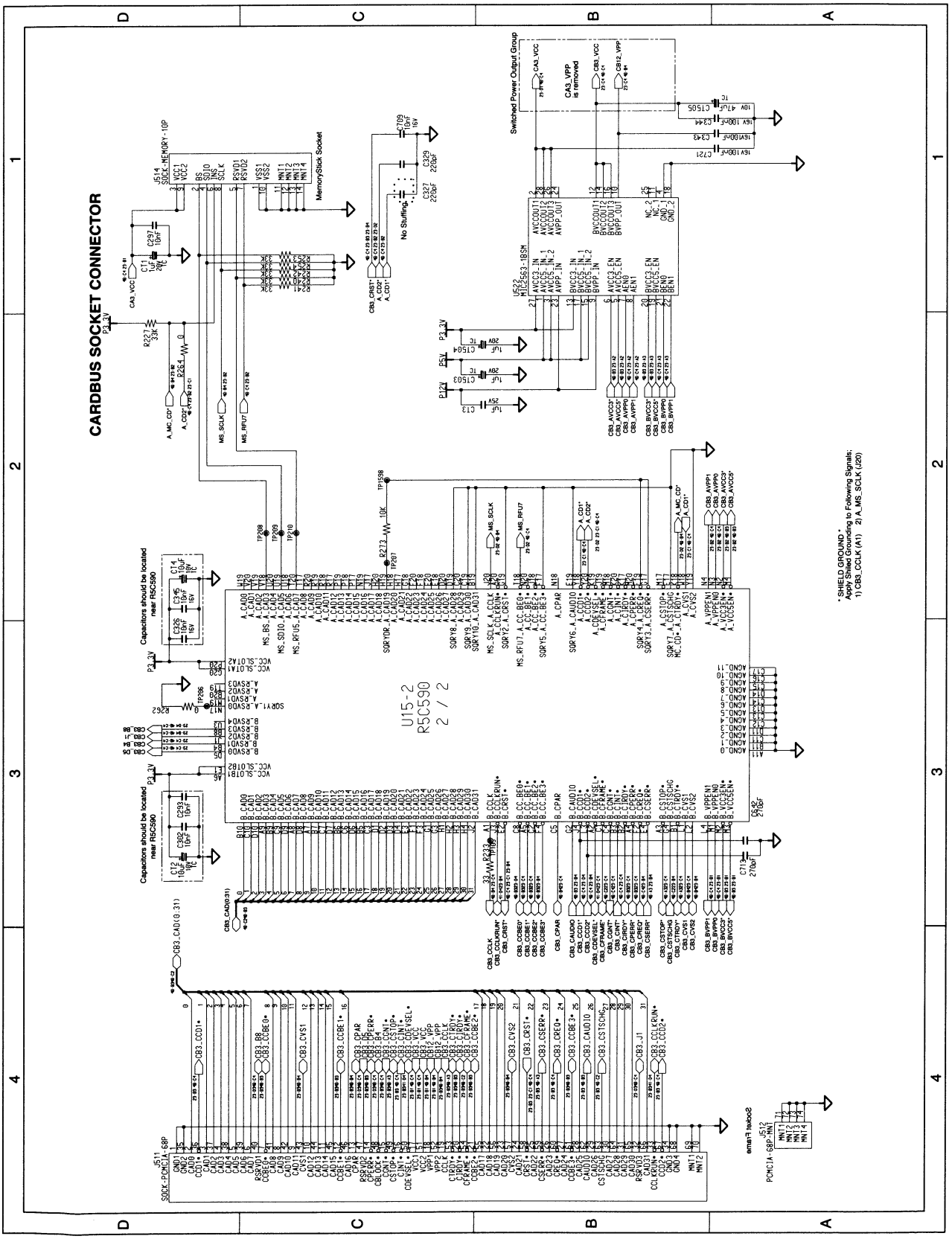
7-1-1(t) Main Board Schematic Sheet 21 of 39(LCD_Connector)



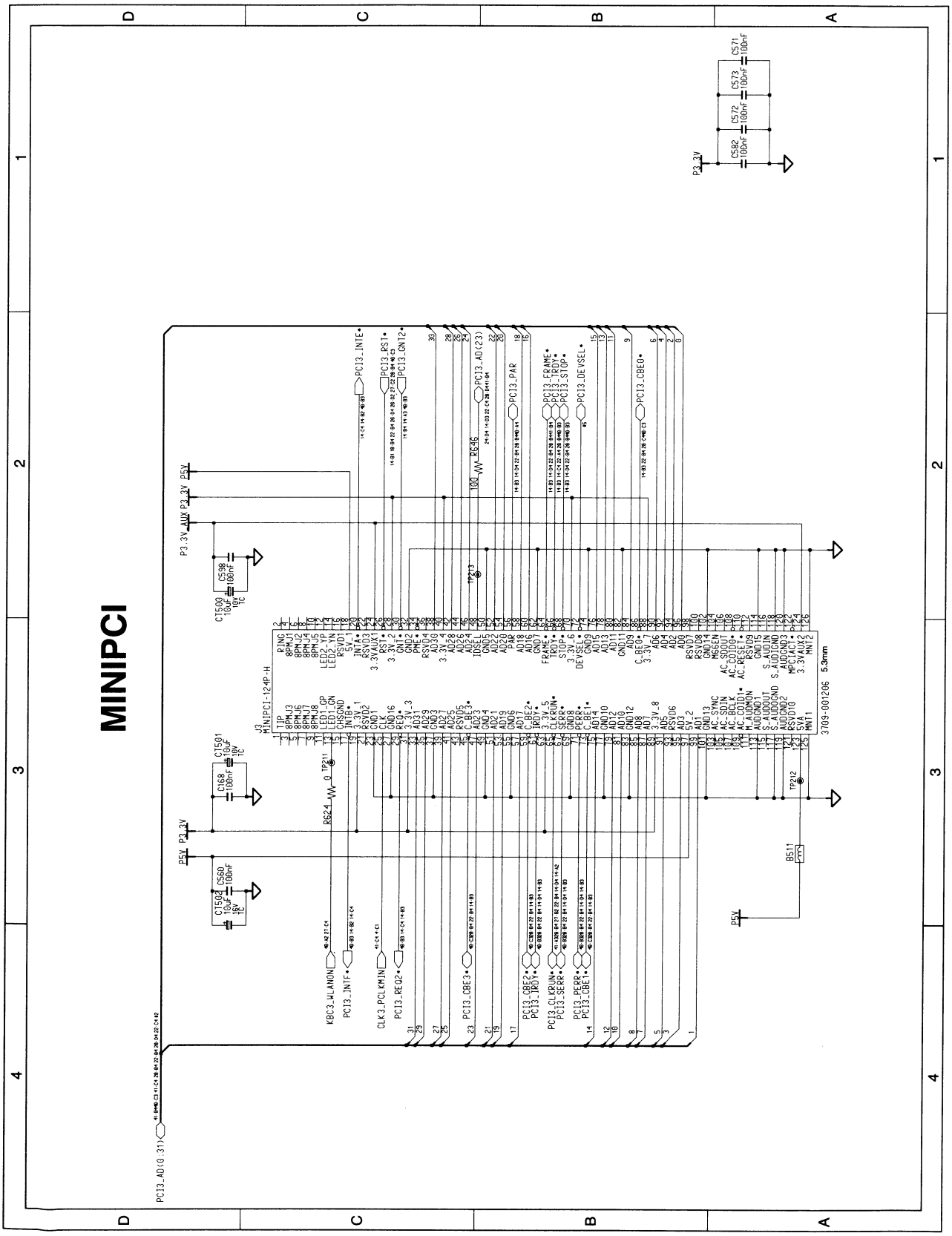
7-1-1(u) Main Board Schematic Sheet 22 of 39(Cardbus & 1394)


* GUARD GROUND *
Analog Guard Grounding to Following Signals
1) Xtal for X1/X0 (Y1 24.576MHz) and its capacitors
2) FILO, REXT and VREF
3) TPBIAS0, TPAP0, TPAN0, TPBP0, and TPBN0
4) TPBIAS1, TPAP1, TPAN1, TPBP1, and TPBN1
Terminators -> Close to R5C590
Max. Trace Length 12.5mm
Should be compact circuit area
-> Place XTAL near R5C590 as close as possible
682097
Capacitors should be located near R5C590 chipset
U15-1
R5C590
For Internal Analog
No Stuff
1 / 2

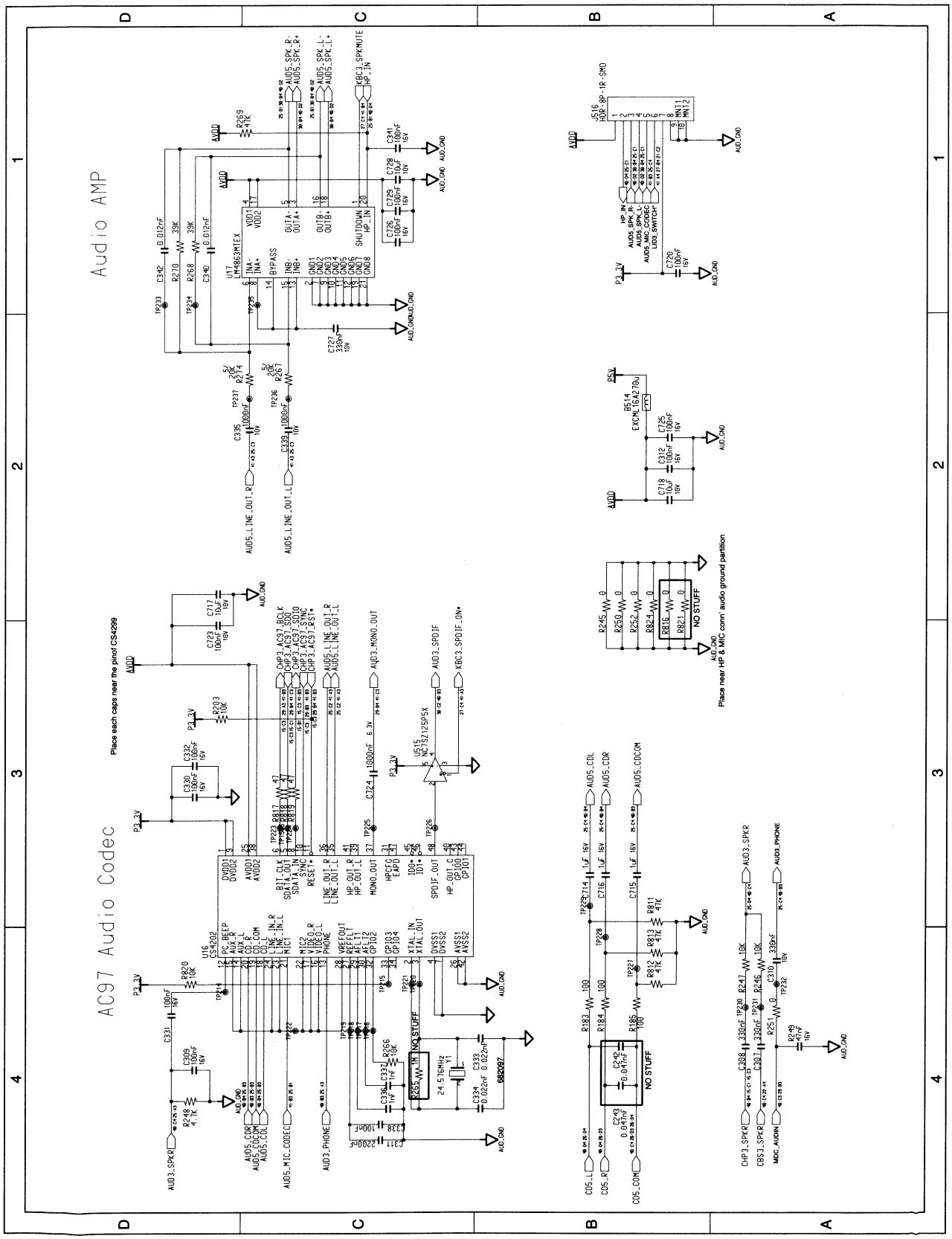
7-1-1(v) Main Board Schematic Sheet 23 of 39(Cardbus Socket)



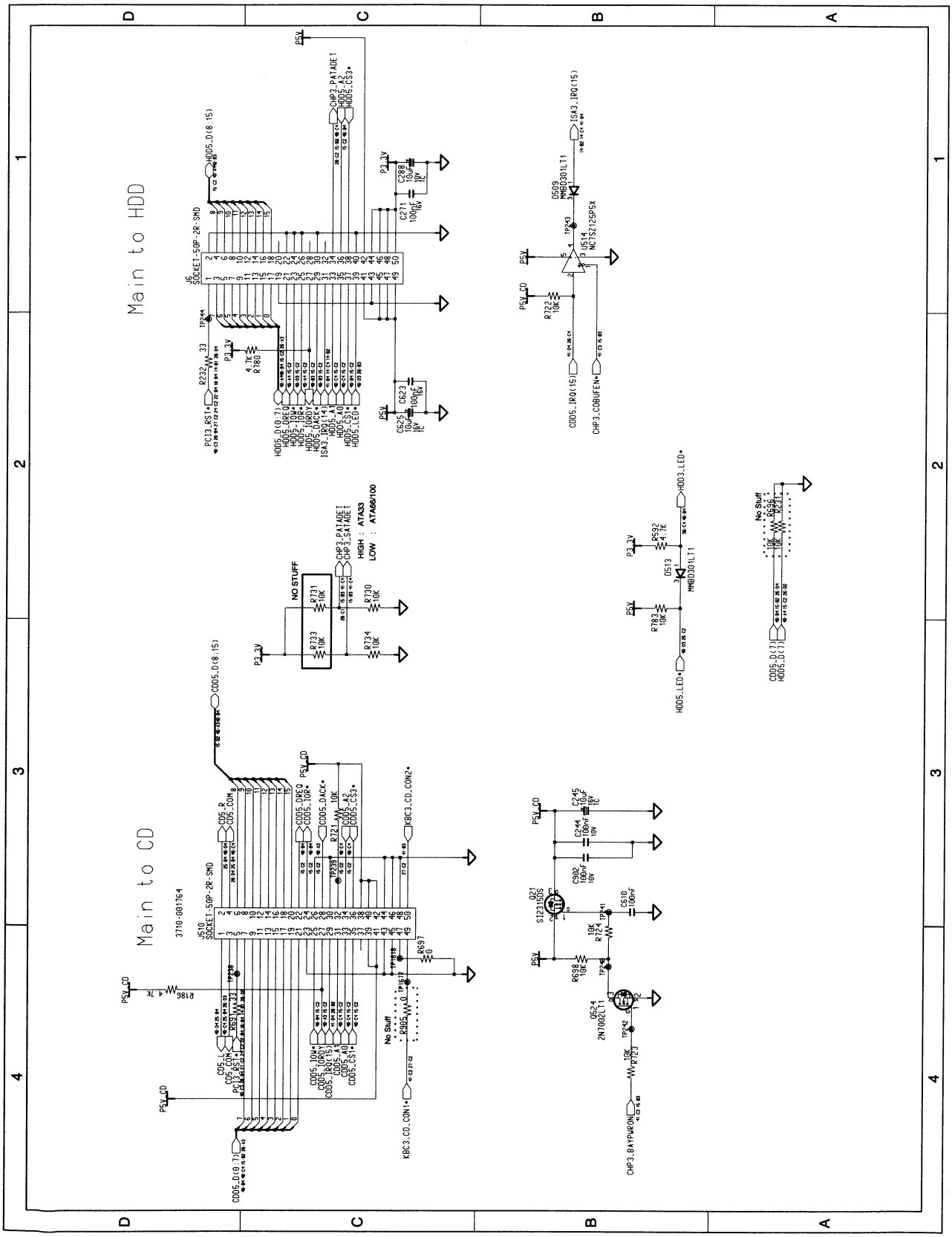
7-1-1(w) Main Board Schematic Sheet 24 of 39(Mini PCI)



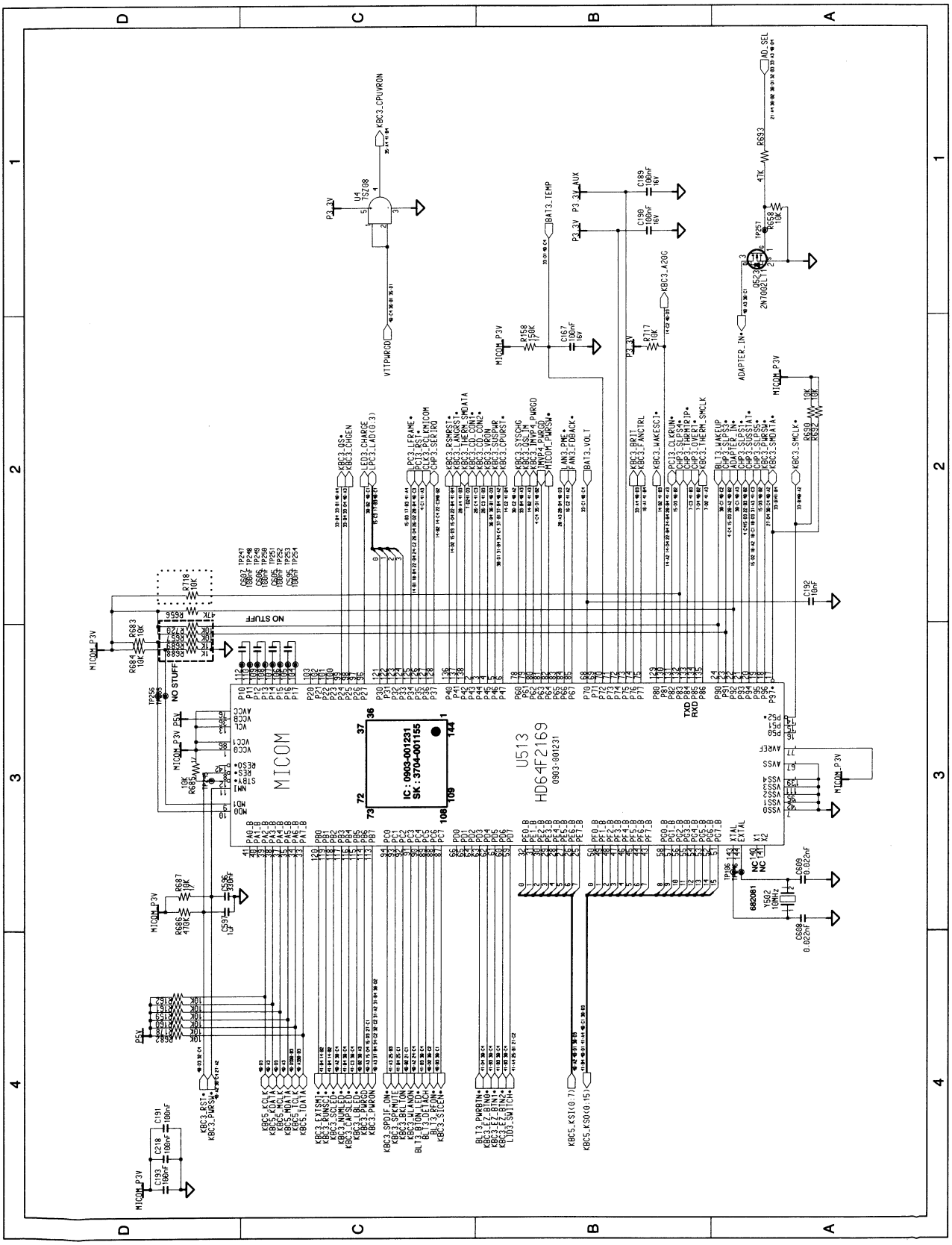
7-1-1(x) Main Board Schematic Sheet 25 of 39(Audio Codec & AMP)



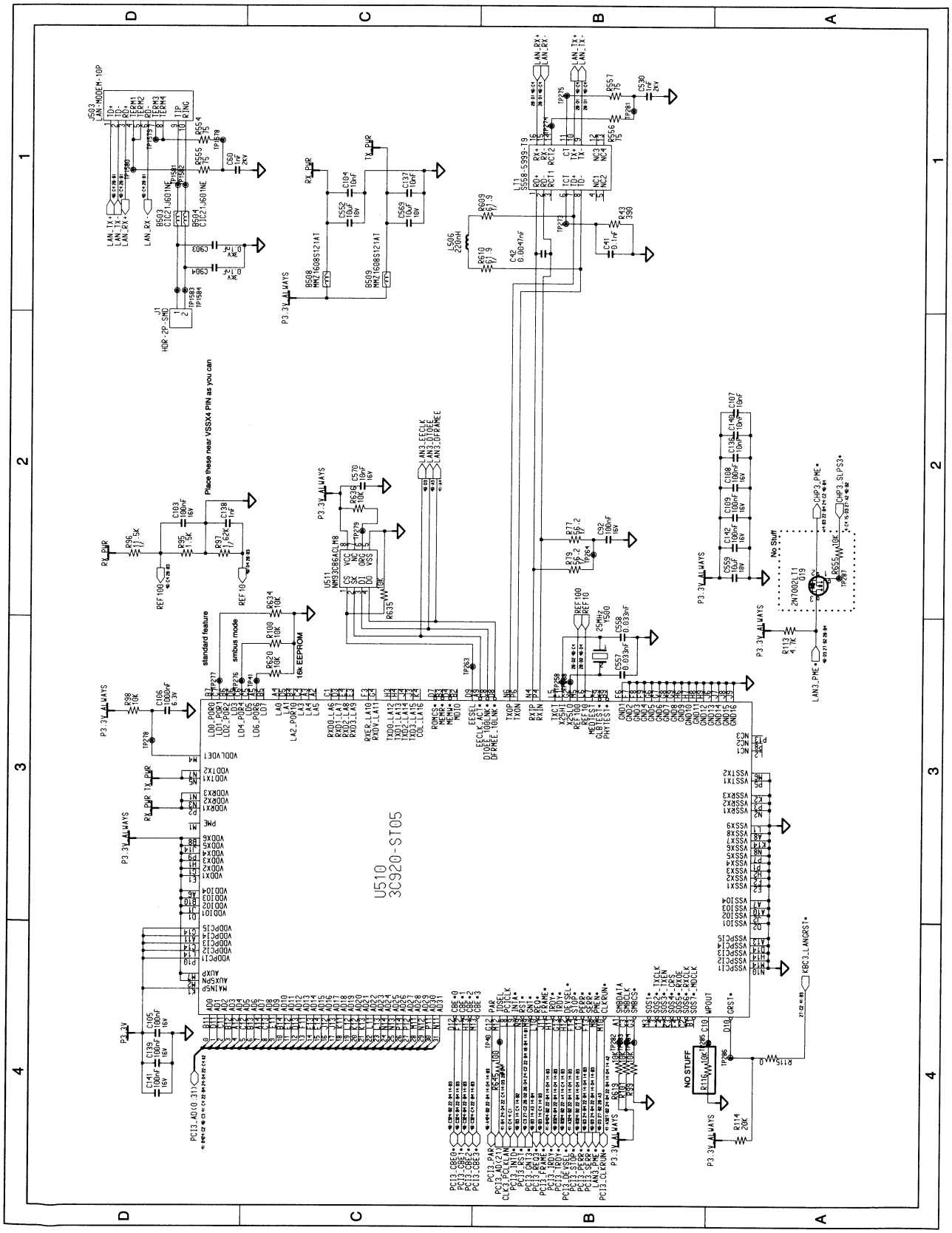
7-1-1(y) Main Board Schematic Sheet 26 of 39(Bay Connector)



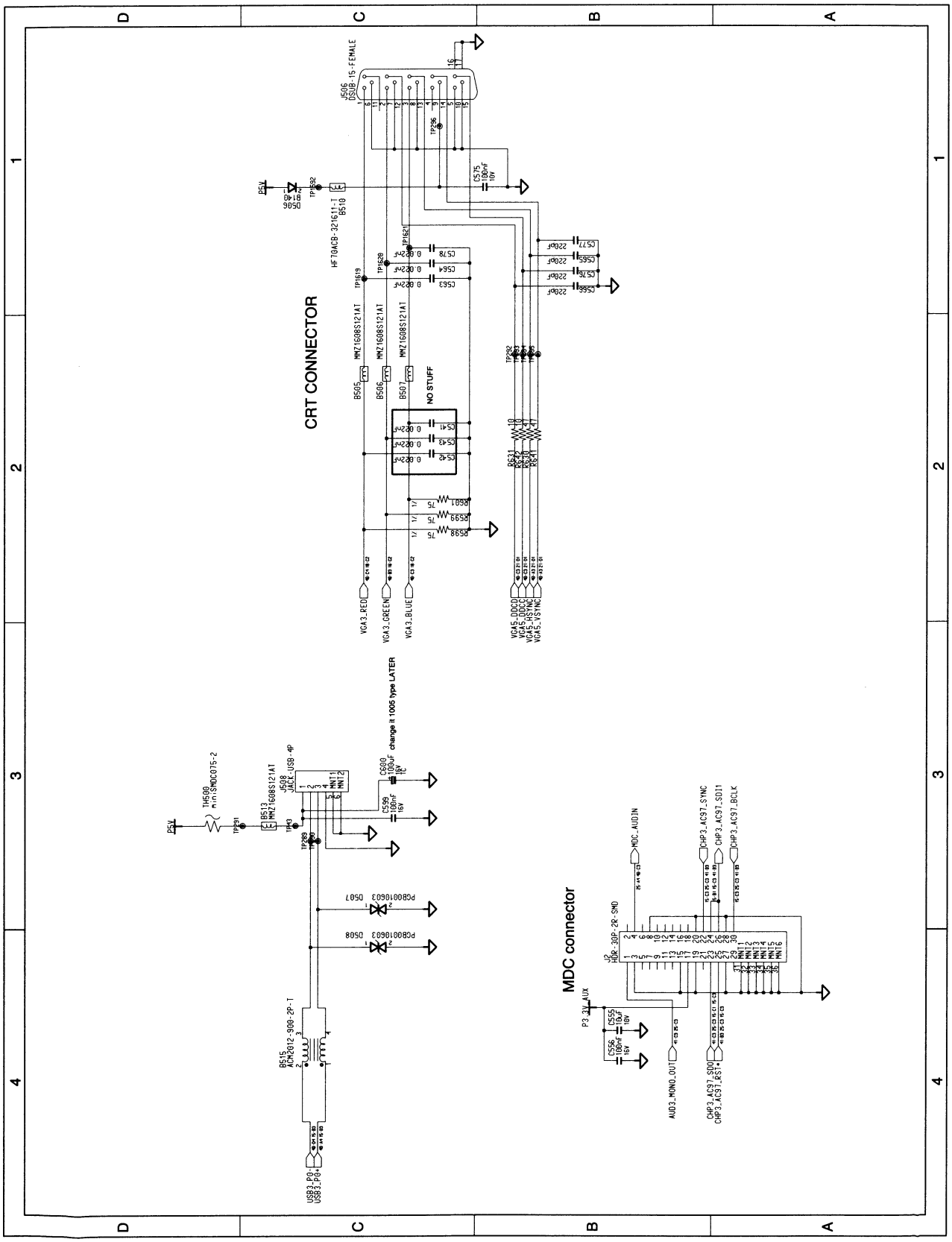
7-1-1(z) Main Board Schematic Sheet 27 of 39(MICOM)



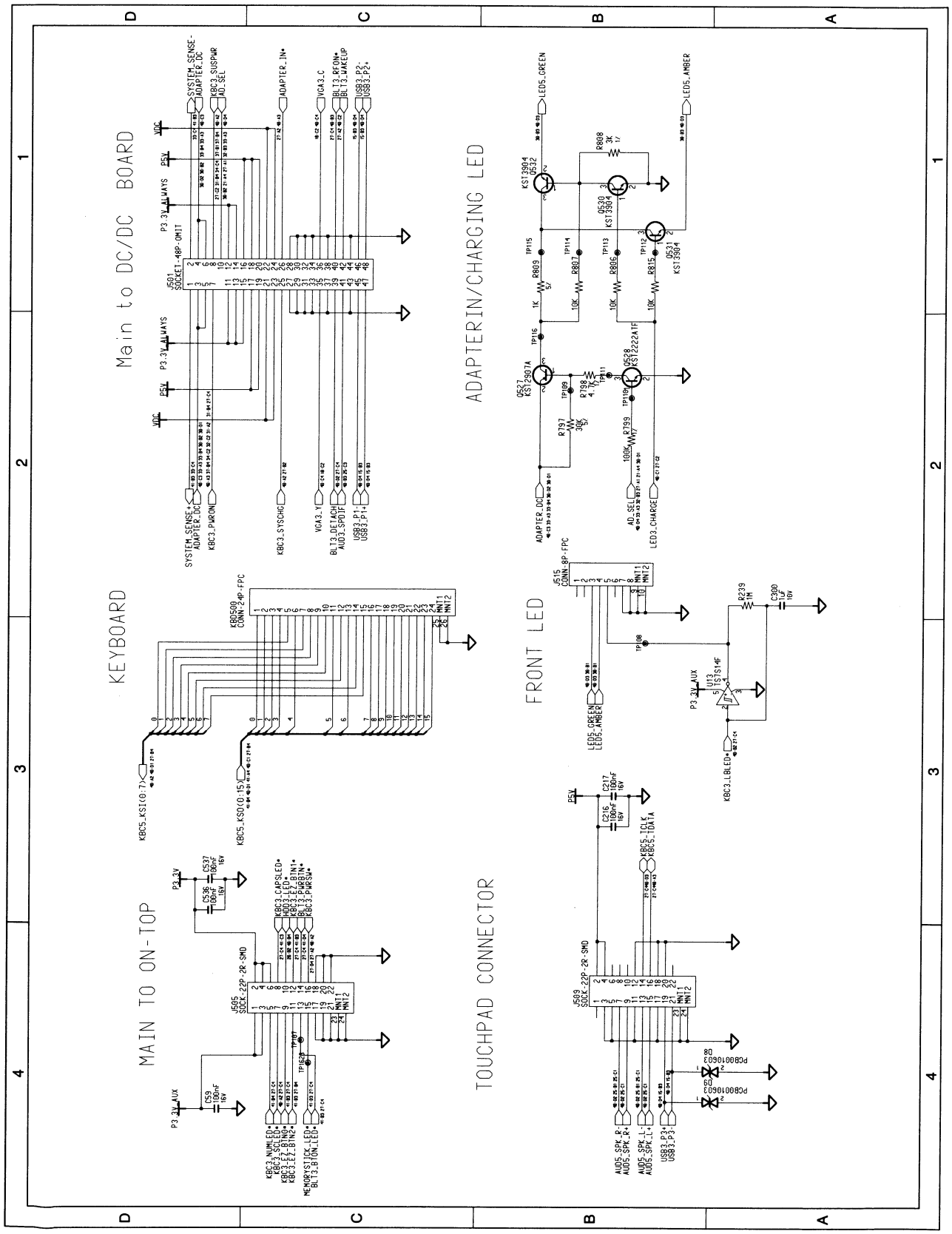
7-1-1(aa) Main Board Schematic Sheet 28 of 39(3COM LAN & MDC)



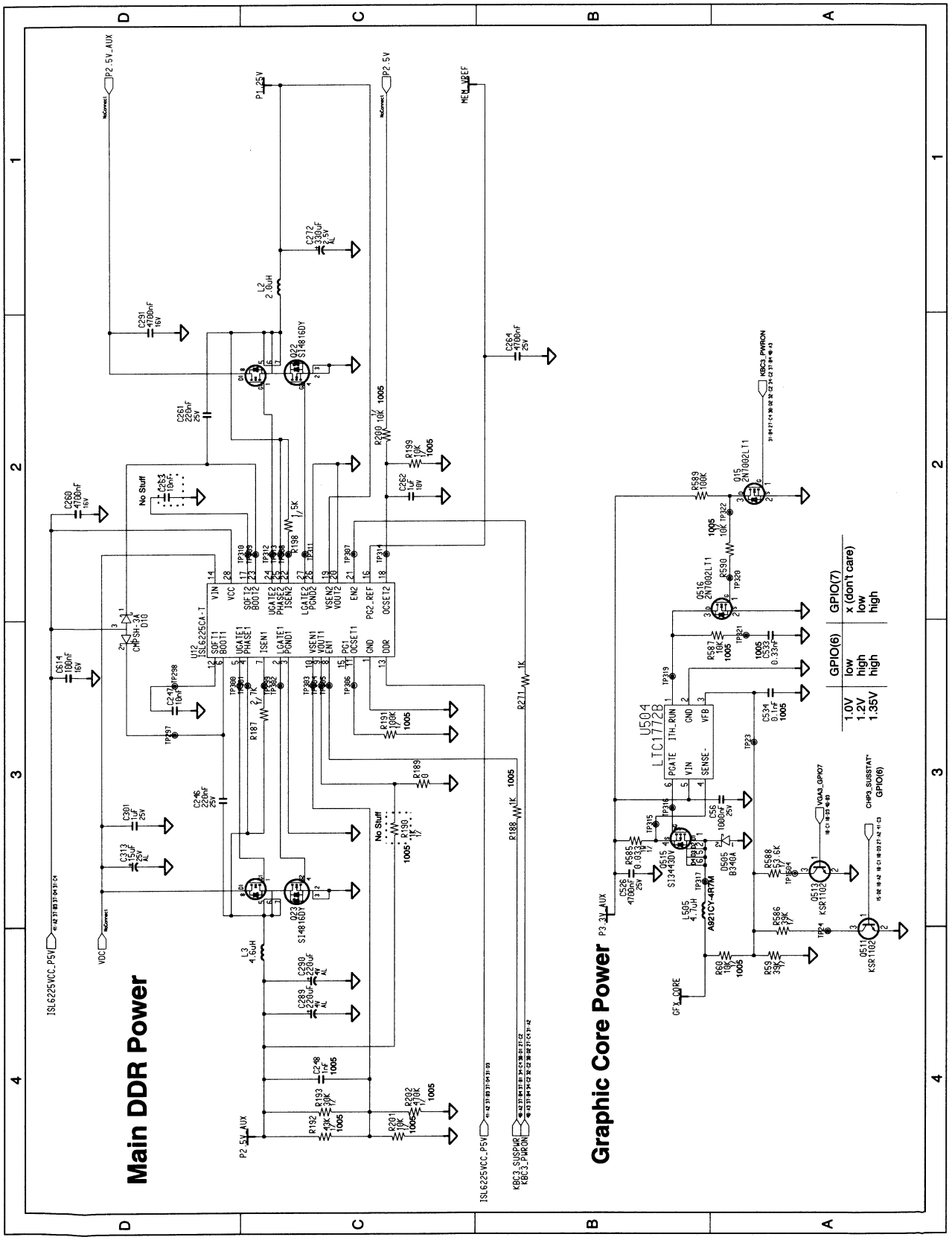
7-1-1(bb) Main Board Schematic Sheet 29 of 39(USB Connector)



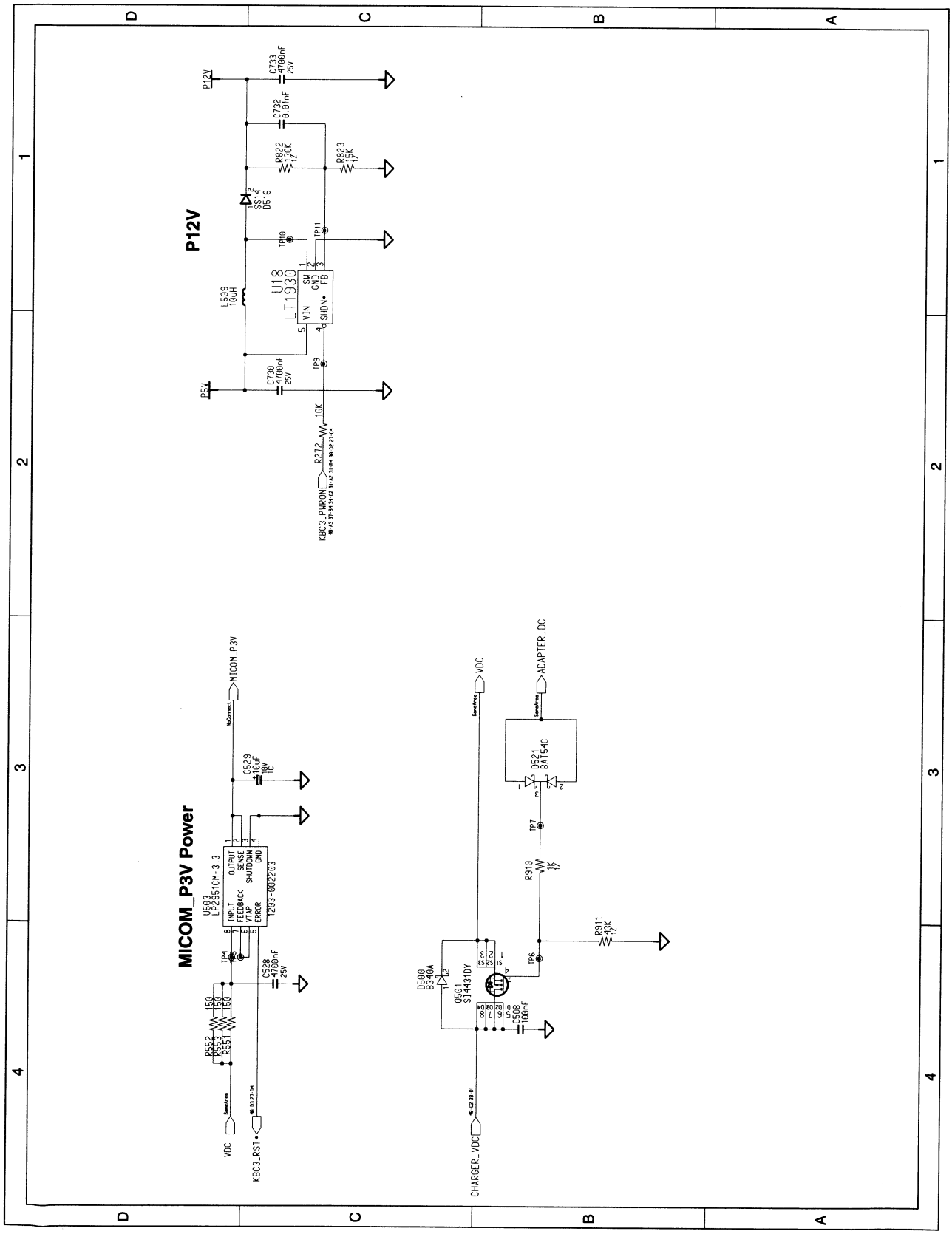
7-1-1(cc) Main Board Schematic Sheet 30 of 39(B'D TO B'D Connector)



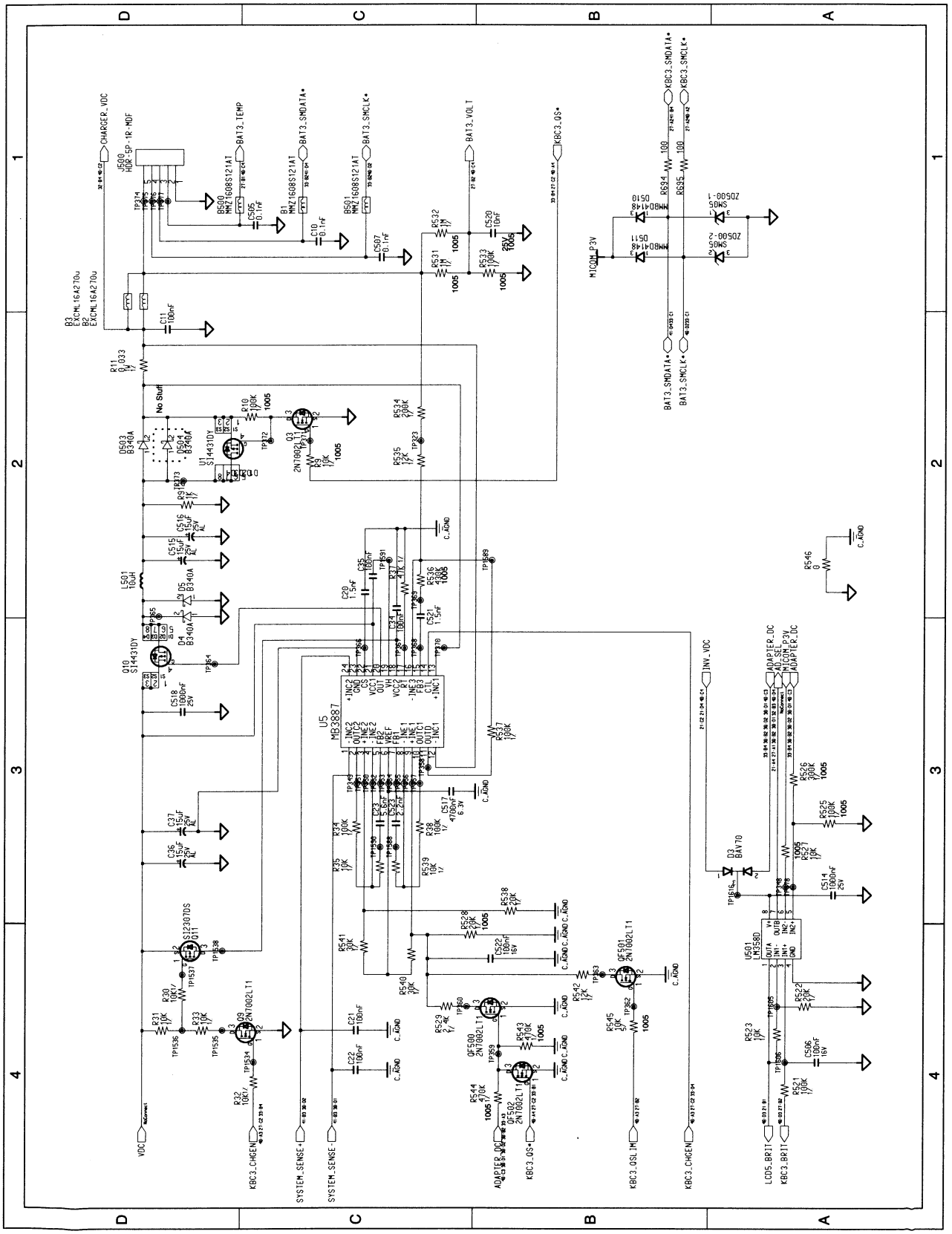
7-1-1(dd) Main Board Schematic Sheet 31 of 39(DDR & Graphic Power)



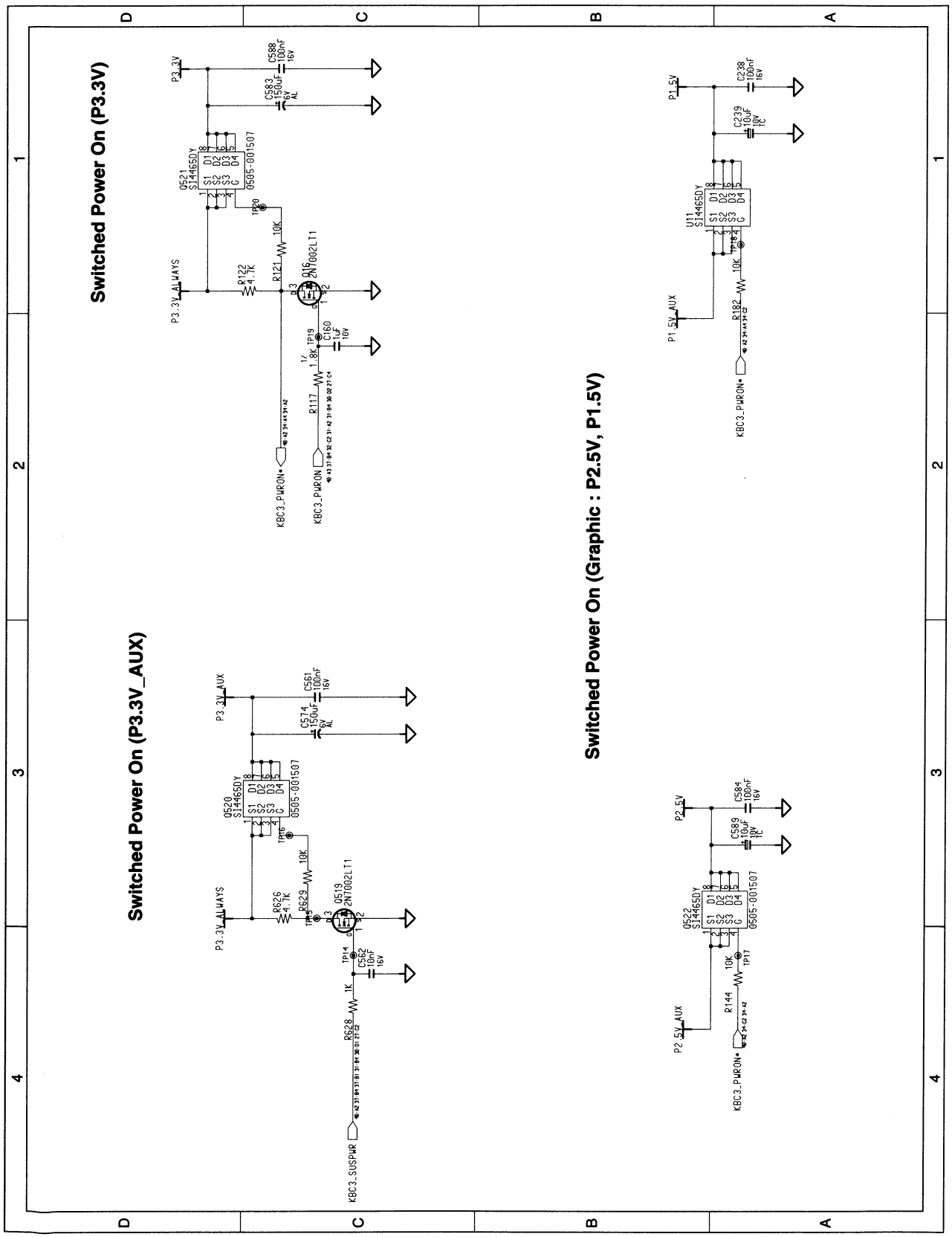
7-1-1(ee) Main Board Schematic Sheet 32 of 39(MICOM & P12 & BBVL Power)



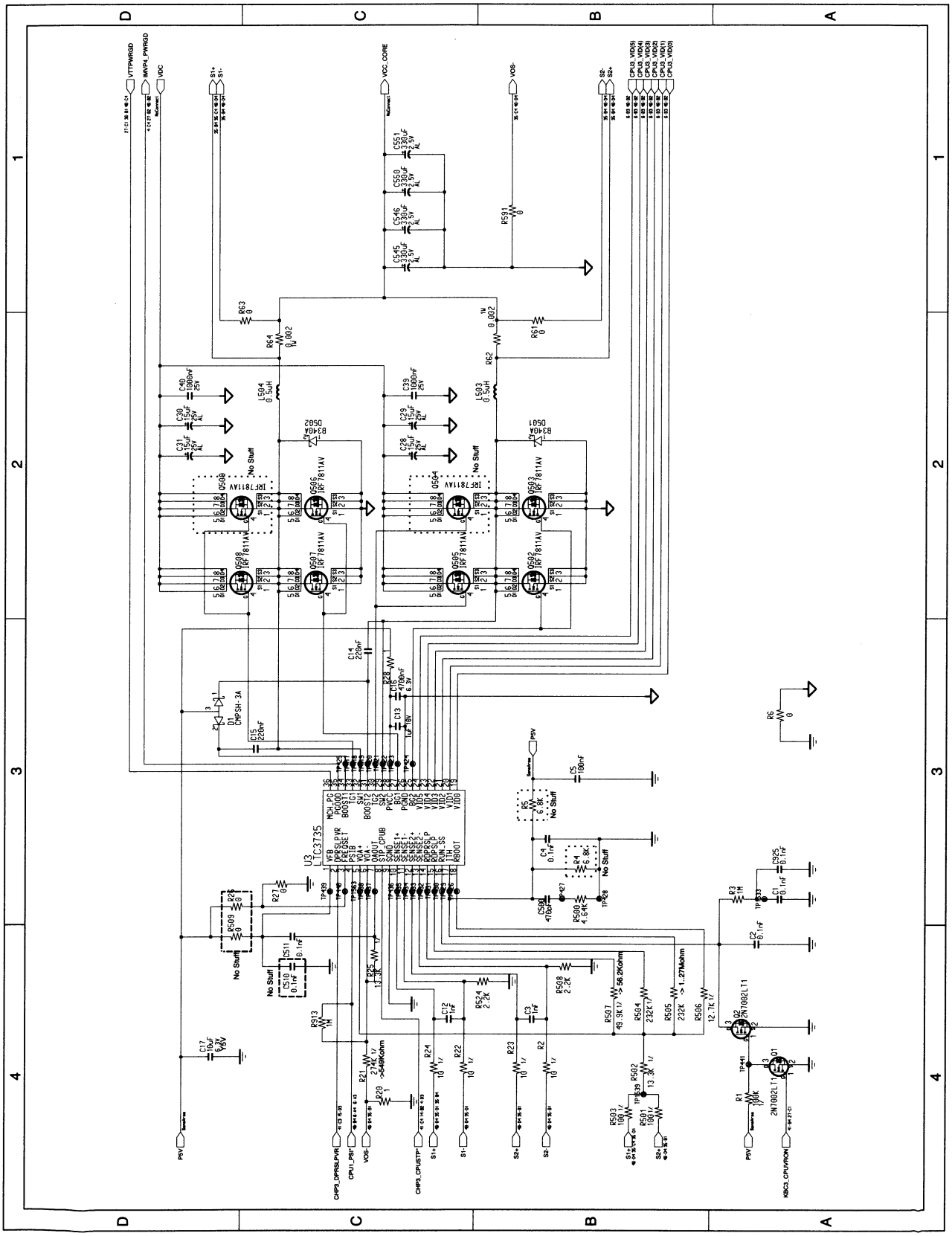
7-1-1(ff) Main Board Schematic Sheet 33 of 39(Charger)



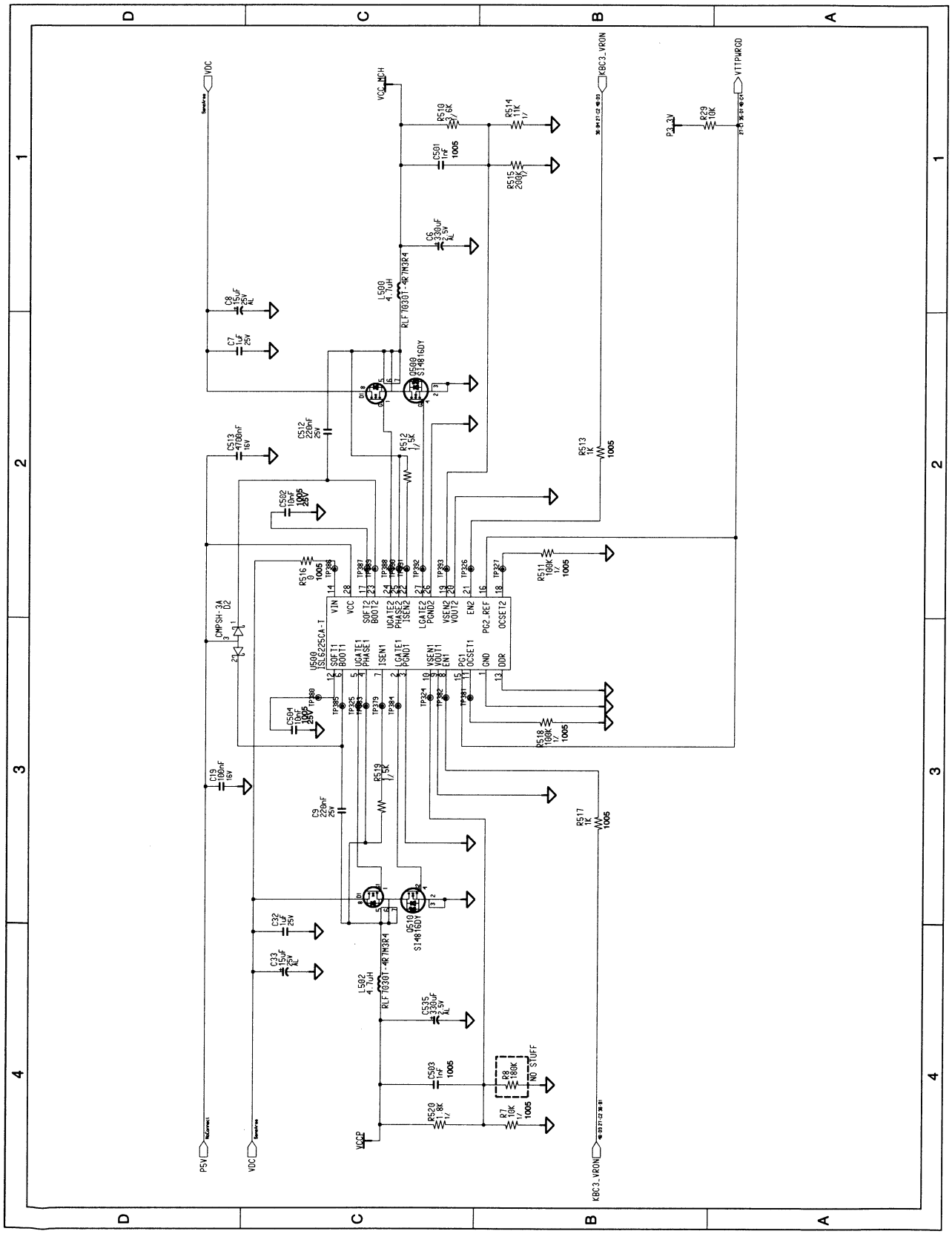
7-1-1(gg) Main Board Schematic Sheet 34 of 39(P3.3 & P2.5V & P1.5V Power)



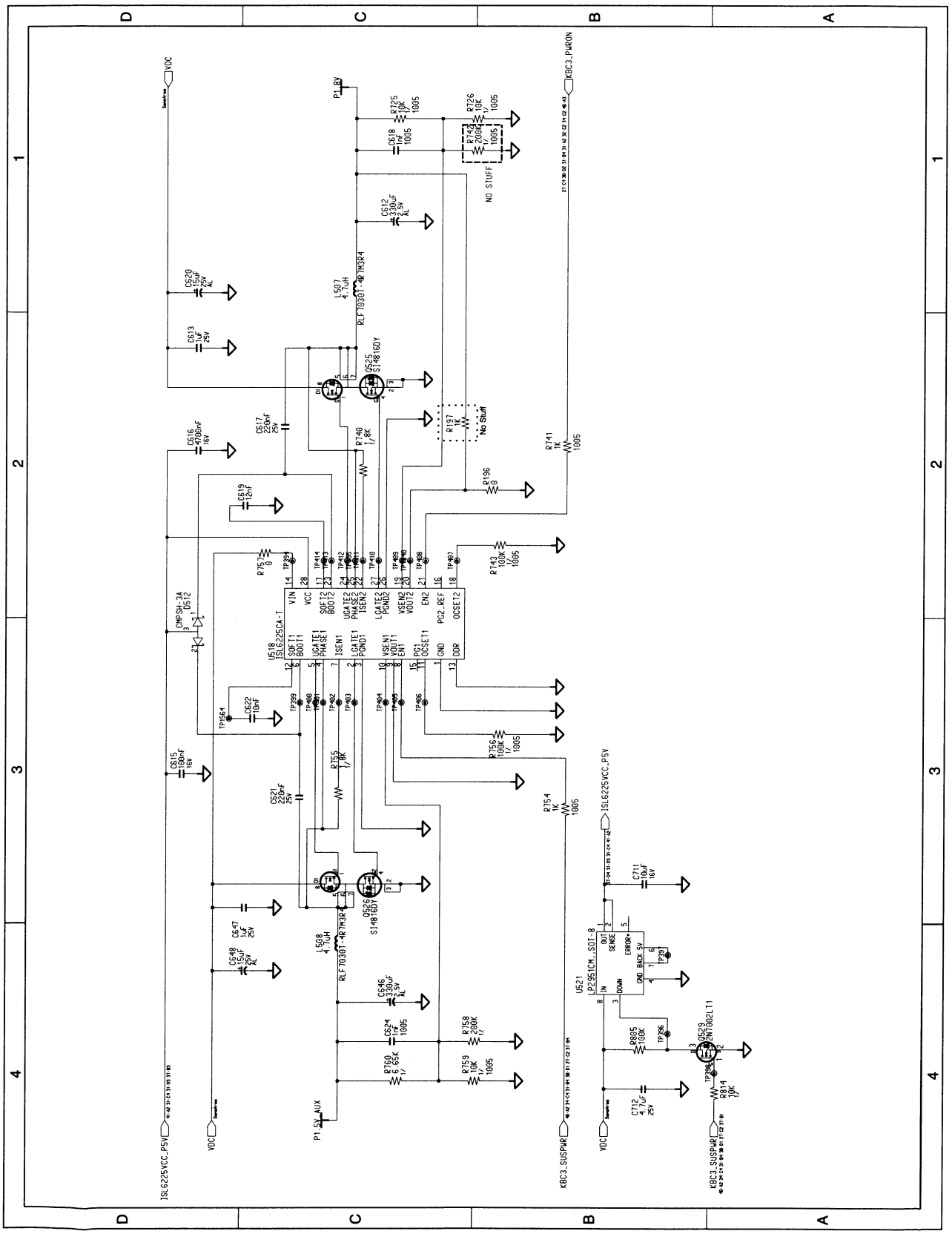
7-1-1(hh) Main Board Schematic Sheet 35 of 39(CPU Power)



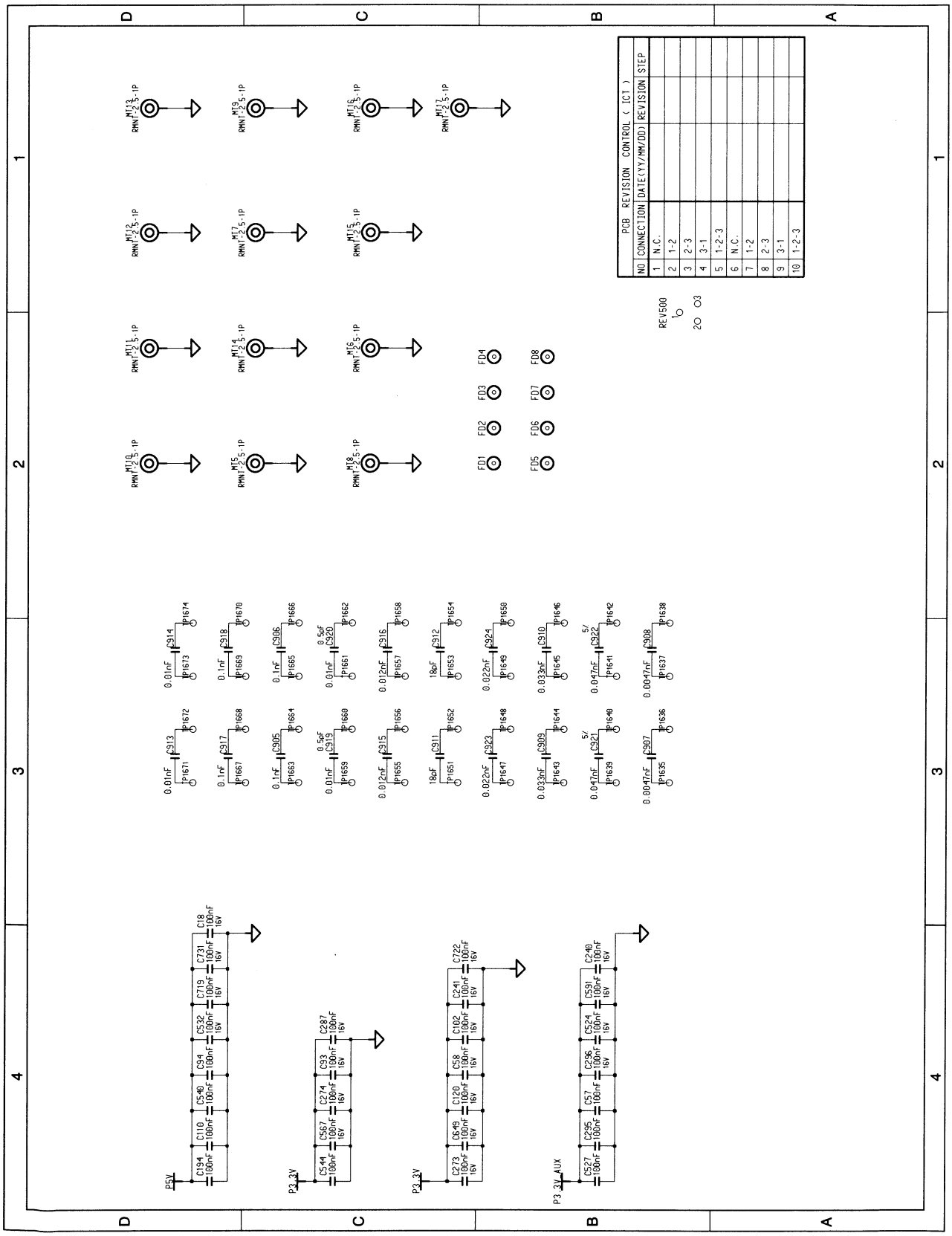
7-1-1(ii) Main Board Schematic Sheet 36 of 39(VCCP & MCH Power)



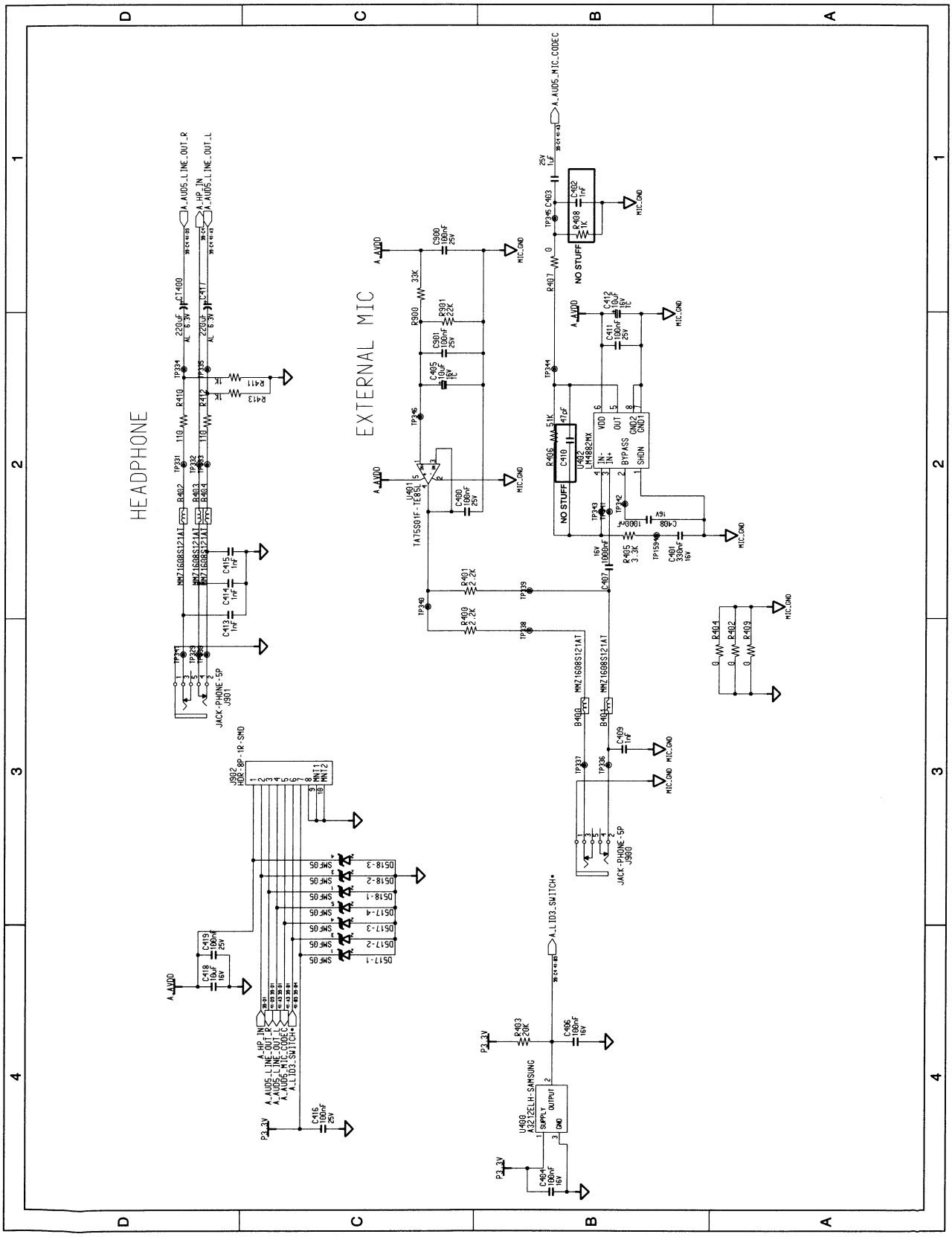
7-1-1(jj) Main Board Schematic Sheet 37 of 39(Switched Power)



7-1-1(kk) Main Board Schematic Sheet 38 of 39(Mount Hole & REV)



7-1-1(II) Main Board Schematic Sheet 39 of 39(Audio Port)



7-1-2 Signal Location

Signal Name	Sheet Number - Location
ADAPTER_DC	30-B2 30-D2 30-D1 33-B4
	33-A3 33-A3 40-C3
ADAPTER_IN*	27-A2 27-A2 30-C1 40-A3
AD_SEL	21-A4 27-A1 30-B2 30-D1
	32-B3 33-A3 40-D4
AGP1_ADSTB0	10-B3 18-A4 40-A3
AGP1_ADSTB0*	10-B3 18-C1 18-A4 41-B4
AGP1_ADSTB1	10-B3 18-A4 40-A3
AGP1_ADSTB1*	10-B3 18-C1 18-A4 41-B4
AGP1_GAD(20)	10-D3 18-D4 41-A4
AGP1_GAD(30)	10-D3 18-D4 41-D4
AGP1_GAD(12)	10-D3 18-D4 41-B4
AGP1_GAD(3)	10-D3 18-D4 40-A3
AGP1_GAD(26)	10-D3 18-D4 41-A4
AGP1_GAD(0)	10-D3 18-D4 40-A3
AGP1_GAD(1)	10-D3 18-D4 40-A3
AGP1_GAD(27)	10-D3 18-D4 41-D4
AGP1_GAD(23)	10-D3 18-D4 41-A4
AGP1_GAD(7)	10-D3 18-D4 40-D2
AGP1_GAD(16)	10-D3 18-D4 41-A4
AGP1_GAD(25)	10-D3 18-D4 41-A4
AGP1_GAD(10)	10-D3 18-D4 41-B4
AGP1_GAD(24)	10-D3 18-D4 41-A4
AGP1_GAD(15)	10-D3 18-D4 41-A4
AGP1_GAD(29)	10-D3 18-D4 41-D4
AGP1_GAD(4)	10-D3 18-D4 40-A3
AGP1_GAD(11)	10-D3 18-D4 41-B4
AGP1_GAD(22)	10-D3 18-D4 41-A4
AGP1_GAD(21)	10-D3 18-D4 41-A4
AGP1_GAD(19)	10-D3 18-D4 41-A4
AGP1_GAD(13)	10-D3 18-D4 41-B4
AGP1_GAD(18)	10-D3 18-D4 41-A4
AGP1_GAD(5)	10-D3 18-D4 40-A3
AGP1_GAD(9)	10-D3 18-D4 40-D2
AGP1_GAD(6)	10-D3 18-D4 40-D2
AGP1_GAD(31)	10-D3 18-D4 41-D4
AGP1_GAD(14)	10-D3 18-D4 41-B4
AGP1_GAD(2)	10-D1 18-D4 40-A3
AGP1_GAD(8)	10-D3 18-D4 40-D2

Signal Name	Sheet Number - Location
AGP1_GAD(28)	10-D3 18-D4 41-D4
AGP1_GAD(17)	10-D3 18-D4 41-A4
AGP1_GAD(31:0)	18-D4
AGP1_GAD(0:31)	10-D3
AGP1_GCBE*(2)	10-C3 18-B4 41-C3
AGP1_GCBE*(3)	10-C3 18-B4 41-C3
AGP1_GCBE*(1)	10-C3 18-B4 41-C3
AGP1_GCBE*(0)	10-C3 18-B4 41-C3
AGP1_GCBE*(3:0)	10-C3
AGP1_GDEVSEL*	10-D2 18-B4 41-C3
AGP1_GFRAME*	10-D2 18-B4 41-D4
AGP1_GGNT*	10-C2 18-B4 40-C3
AGP1_GIRDY*	10-D2 18-B4 40-D2
AGP1_GPAR	10-C2 18-B4 40-C4
AGP1_GREQ*	10-C2 18-B4 40-C3
AGP1_GSTOP*	10-C2 18-D1 18-B4 40-D2
AGP1_GTRDY*	10-D2 18-B4 40-D2
AGP1_PIPE*	10-A3 10-B3 18-B4 40-C3
AGP1_RBF*	10-B3 18-B4 40-C4
AGP1_ST(0)	10-B3 18-B4 40-C3
AGP1_ST(1)	10-B3 10-B4 18-B4 40-B3
AGP1_ST(2)	10-B3 10-B4 18-B4 40-B3
AGP1_ST(2:0)	10-B3
AGP1_VREF	10-C2 10-B1 18-A4 40-C4
AGP1_WBF*	10-B3 18-B4 40-C4
AGP3_BUSY*	14-B2 18-B4 40-B3
AUD3_MONO_OUT	25-C3 29-B4 41-C3
AUD3_PHONE	25-A3 25-C4 40-B3
AUD3_SPDIF	25-C3 30-C2 40-B3
AUD3_SPKR	25-D4 25-A3 40-C4
AUD5_CDCOM	25-C4 25-B3 40-B3
AUD5_CDL	25-C4 25-B3 40-B4
AUD5_CDR	25-C4 25-B3 40-B4
AUD5_LINE_OUT_L	25-C3 25-C2 41-A3
AUD5_LINE_OUT_R	25-C3 25-C2 41-A3
AUD5_MIC_CODEC	25-C4 25-B1 41-B3
AUD5_SPK_L+	25-C1 30-B4 40-D2
AUD5_SPK_L-	25-C1 25-B1 30-B4 40-D2
AUD5_SPK_R+	25-C1 30-B4 40-D2

Signal Name	Sheet Number - Location
AUD5_SPK_R-	25-C1 25-B1 30-B4 40-D2
A_AUD5_LINE_OUT_L	39-C4 39-D1 41-A3
A_AUD5_LINE_OUT_R	39-C4 39-D1 41-D3
A_AUD5_MIC_CODEC	39-C4 39-B1 41-A3
A_CD1*	23-B2 23-C1 23-B2 40-C4
A_CD2*	23-B2 23-C1 23-D2 40-C4
A_HP_IN	39-C4 39-D1
A_LID3_SWITCH*	39-C4 39-B4 41-B3
A_MC_CD*	23-B2 23-D2 40-B4
BAT3_SMCLK*	33-C1 33-B2 40-D2
BAT3_SMDATA*	33-C1 33-B2 41-D4
BAT3_TEMP	27-B1 33-D1 40-C4
BAT3_VOLT	27-B2 33-C1 40-C4
BLT3_BTON_LED*	27-C4 30-C4 41-B3
BLT3_DETACH	27-C4 30-C2 40-D2
BLT3_PWRBTN*	27-C4 30-C4 41-D4
BLT3_RFON*	27-C4 30-C1 40-B3
BLT3_WAKEUP	27-A2 30-C1 40-C2
CA3_VCC	23-D1 23-B1 40-C4
CB12_VPP	23-C4 23-B1 23-C4 40-B4
CB3_AVCC3*	23-A2 23-B2 40-B3
CB3_AVCC5*	23-A2 23-B2 40-B3
CB3_AVPP0	23-A2 23-B2 40-C4
CB3_AVPP1	23-A2 23-B2 40-C4
CB3_B4	23-D3 23-C4 40-C4
CB3_B8	23-D3 23-D4 40-C4
CB3_BVCC3*	23-B1 23-A3 40-B3
CB3_BVCC5*	23-B1 23-A3 40-B3
CB3_BVPP0	23-B1 23-A3 40-C4
CB3_BVPP1	23-B1 23-A3 40-C4
CB3_CAD(0)	23-D4 23-D4 40-B3
CB3_CAD(5)	23-D4 23-D4 40-B3
CB3_CAD(16)	23-D4 23-D4 40-C2
CB3_CAD(28)	23-D4 23-D4 40-C2
CB3_CAD(15)	23-D4 23-D4 40-C2
CB3_CAD(8)	23-D4 23-D4 40-B3
CB3_CAD(3)	23-D4 23-D4 40-B3
CB3_CAD(11)	23-D4 23-D4 40-C2
CB3_CAD(14)	23-D4 23-D4 40-C2

Signal Name	Sheet Number - Location
CB3_CAD(7)	23-D4 23-D4 40-B3
CB3_CAD(2)	23-D4 23-D4 40-B3
CB3_CAD(1)	23-D4 23-D4 40-B3
CB3_CAD(24)	23-D4 23-D4 40-C2
CB3_CAD(9)	23-D4 23-D4 40-B3
CB3_CAD(18)	23-D4 23-D4 40-C2
CB3_CAD(22)	23-D4 23-D4 40-C2
CB3_CAD(10)	23-D4 23-D4 40-C2
CB3_CAD(21)	23-D4 23-D4 40-C2
CB3_CAD(6)	23-D4 23-D4 40-B3
CB3_CAD(29)	23-D4 23-D4 40-C2
CB3_CAD(17)	23-D4 23-D4 40-C2
CB3_CAD(12)	23-D4 23-D4 40-C2
CB3_CAD(25)	23-D4 23-D4 40-C2
CB3_CAD(20)	23-D4 23-D4 40-C2
CB3_CAD(4)	23-D4 23-D4 40-B3
CB3_CAD(23)	23-D4 23-D4 40-C2
CB3_CAD(31)	23-D4 23-D4 40-C2
CB3_CAD(27)	23-D4 23-D4 40-C2
CB3_CAD(19)	23-D4 23-D4 40-C2
CB3_CAD(13)	23-D4 23-D4 40-C2
CB3_CAD(30)	23-D4 23-D4 40-C2
CB3_CAD(26)	23-D4 23-D4 40-C2
CB3_CAD(0:31)	23-D4 23-D4
CB3_CAUDIO	23-B3 23-B4 40-B3
CB3_CCBE0*	23-B3 23-D4 40-B3
CB3_CCBE1*	23-B3 23-C4 40-B3
CB3_CCBE2*	23-B3 23-C4 40-B3
CB3_CCBE3*	23-B3 23-B4 40-B3
CB3_CCD1*	23-B3 23-D4 40-C4
CB3_CCD2*	23-B3 23-B4 40-C4
CB3_CCLK	23-B3 23-C4 40-B4
CB3_CCLKRUN*	23-B3 23-B4 41-D4
CB3_CDEVSEL*	23-B3 23-C4 41-D4
CB3_CFRAME*	23-B3 23-C4 40-C2
CB3_CGNT*	23-B3 23-C4 40-C4
CB3_CINT*	23-B3 23-C4 40-C4
CB3_CIRDY*	23-B3 23-C4 40-B3
CB3_CPAR	23-B3 23-C4 40-B4

Signal Name	Sheet Number - Location
CB3_CPERR*	23-B3 23-C4 40-B3
CB3_CREQ*	23-B3 23-B4 40-C4
CB3_CRST*	23-C1 23-B3 23-B4 40-C4
CB3_CSERR*	23-B3 23-B4 40-A3
CB3_CSTOP*	23-B3 23-C4 40-A3
CB3_CSTSCHG	23-B3 23-B4 40-C2
CB3_CTRDY*	23-B3 23-C4 40-A3
CB3_CVS1	23-B3 23-C4 40-B4
CB3_CVS2	23-B3 23-B4 40-B4
CB3_D5	23-D3 23-C4 40-C4
CB3_J1	23-D3 23-B4 40-C4
CB3_VCC	23-C4 23-B1 23-C4 40-C4
CBS3_SPKR	22-A4 25-A4 40 ?C4
CD5_COM	25-B4 26-D4 26-D3 40-C4
CD5_L	25-B4 26-D4 40-D4
CD5_R	25-B4 26-D3 40-D4
CDD5_A0	15-C2 26-C4 40-C4
CDD5_A1	15-C2 26-C4 40-C4
CDD5_A2	15-C2 26-C3 40-C4
CDD5_CS1*	15-C2 26-C4 40-C4
CDD5_CS3*	15-C2 26-C3 40-C4
CDD5_D(10)	15-B2 26-D34 0-A3
CDD5_D(6)	15-B2 26-D4 40-B4
CDD5_D(2)	15-B2 26-D4 40-B4
CDD5_D(13)	15-B2 26-D3 40-A3
CDD5_D(4)	15-B2 26-D4 40-B4
CDD5_D(8)	15-B2 26-D3 40-B4
CDD5_D(11)	15-B2 26-D3 40-A3
CDD5_D(12)	15-B2 26-D3 40-A3
CDD5_D(0)	15-B2 26-D4 40-C4
CDD5_D(14)	15-B2 26-D3 40-A3
CDD5_D(15)	15-B2 26-D3 40-A3
CDD5_D(9)	15-B2 26-D3 40-B4
CDD5_D(1)	15-B2 26-D4 40-C4
CDD5_D(7)	15-B2 26-A3 26-D4 40-B4
CDD5_D(3)	15-B2 26-D4 40-B4
CDD5_D(5)	15-B2 26-D4 40-B4
CDD5_D(8:15)	26-D3
CDD5_D(0:7)	26-D4

Signal Name	Sheet Number - Location
CDD5_D(0:15)	15-B2
CDD5_DACK*	15-C2 26-C3 40-A3
CDD5_DREQ	15-C2 26-D3 40-B4
CDD5_IOR*	15-C2 26-C3 40-B4
CDD5_IORDY	15-C2 26-C4 40-A3
CDD5_IOW*	15-C2 26-C4 40-B4
CDD5_IRQ(15)	26-B2 26-C4 41-D4
CHARGER_VDC	32-B4 33-D1 40-C2
CHP3_1394_ROMW*	15-B3 22-B2 41-A3
CHP3_AC97_BCLK	15-C3 25-C3 29-A3 41-B3
CHP3_AC97_RST*	15-C3 25-C3 29-B4 41-B3
CHP3_AC97_SDI0	15-B1 15-C3 25-C3 41-B3
CHP3_AC97_SDI1	15-B1 15-C3 29-B3 41-B3
CHP3_AC97_SDI2	15-B1 15-C3 41-B3
CHP3_AC97_SDO	15-C3 15-C1 25-C3 29-B4 41-C3
CHP3_AC97_SYNC	15-C3 25-C3 29-B3 41-B3
CHP3_BATLOW*	14-B4 14-B2 41-D4
CHP3_BAYPWRON	15-B3 26-B4 41-C3
CHP3_BIOSTBL*	15-B3 17-B4 41-C3
CHP3_BIOSWP*	15-B3 17-B4 41-C4
CHP3_BIOS_PROTECT*	15-B3 16-C2 41-D3
CHP3_C3STAT*	14-A2 18-B4 41-C4
CHP3_CDBUFEN*	15-B3 26-B2 41-C3
CHP3_CPUSTP*	4-D3 14-B2 35-C4 41-C4
CHP3_DPRSLPVR	15-D3 35-C4 41-C3
CHP3_EE_DOUT	15-A2 15-C1 41-C4
CHP3_GPIO42	15-B3 15-B1 40-C2
CHP3_GPIO43	15-B 15-B1 40-C2
CHP3_INTRUDER*	14-B4 14-B2 41-B3
CHP3_IVTPWRON	15-B3 21-C3 41-C3
CHP3_OVERT*	7-D4 27-B2 40-B2
CHP3_PATADET	15-B3 26-C1 26-C2 41-C4
CHP3_PCGNTA*	14-B3 15-C1 41-C4
CHP3_PCGNTB*	14-A3 14-C4 41-C4
CHP3_PCISTP*	4-D3 14-B2 41-C4
CHP3_PCREQA*	14-B3 14-C4 41-C4
CHP3_PCREQB*	14-B3 14-C4 41-C4
CHP3_PME*	14-B3 22-B4 24-C2 28-A2

Signal Name	Sheet Number - Location
CHP3_PME*	14-B3 22-B4 24-C2 28-A2 40-B4
CHP3_RTCRST*	15-C3 16-D2 41-C4
CHP3_SATADET	15-B3 26-C2 41-C4
CHP3_SERIRQ	14-B2 14-C4 22-C3 27-C2 40-B2
CHP3_SLPS1*	4-C4 15-D3 22-B3 27-A2 40-B2
CHP3_SLPS3*	4-C4 15-D3 27-A2 28-A2 40-B2
CHP3_SLPS4*	15-D3 27-B2 40-B2
CHP3_SLPS5*	15-D3 27-A2 40-B2
CHP3_SMLINK0	14-B4 14-B2 41-C4
CHP3_SMLINK1	14-B4 14-B2 41-C4
CHP3_SPKR	15-C3 15-C1 25-A4 40-B4
CHP3_SUSSTAT*	15-D2 18-A2 18-C1 18-D3 27-A2 31-A3 41-C3
CHP3_THRMTRIP*	7-C3 27-B2 41-B3
CHP3_VBIAS	15-C4 16-D2 40-D3
CLK0_HCLK0	4-C3 6-C3 40-D3
CLK0_HCLK0*	4-C3 6-C3 40-B2
CLK0_HCLK1	4-C3 8-B3 40-D3
CLK0_HCLK1*	4-C3 8-B3 40-B2
CLK0_HCLK2	4-C3 6-C3 40-D3
CLK0_HCLK2*	4-C3 6-C3 40-B2
CLK0_ITP	4-C3 7-B2 40-B4
CLK0_ITP*	4-C3 7-B2 40-B4
CLK2_MCLK0	9-C3 11-C4 40-D3
CLK2_MCLK0*	9-C3 11-C4 40-B2
CLK2_MCLK1	9-C3 11-C4 40-D3
CLK2_MCLK1*	9-C3 11-C4 40-B2
CLK2_MCLK2	9-C3 11-C4 40-D3
CLK2_MCLK2*	9-B1 1-C4 40-B2
CLK2_MCLK3	9-B3 11-C3 40-D3
CLK2_MCLK3*	9-B3 11-C3 40-B2
CLK2_MCLK4	9-B3 11-C3 40-D3
CLK2_MCLK4*	9-B3 11-C3 40-B2
CLK2_MCLK5	9-B3 11-C3 40-D3
CLK2_MCLK5*	9-B3 11-C3 40-B2

Signal Name	Sheet Number - Location
CLK3_AGP66	4-C1 18-B4 40-D3
CLK3_ICH14	4-B1 15-C3 40-D3
CLK3_ICH48	4-B1 15-C3 40-D3
CLK3_ICH66	4-C1 15-C3 40-C3
CLK3_MCH66	4-C1 10-D2 40-C3
CLK3_PCLKCB	4-C1 22-B4 40-B2
CLK3_PCLKFWH	4-C1 17-B4 41-C4
CLK3_PCLKICH	4-C1 14-B3 41-C4
CLK3_PCLKLAN	4-C1 28-B4 41-C4
CLK3_PCLKMICOM	4-C1 27-C2 41-A3
CLK3_PCLKMIN	4-C1 24-C4 41-C4
CLK3_PCLKSIO	4-C1 41-C4
CPU1_A*(8)	5-C4 8-C3 40-C3
CPU1_A*(3)	5-C4 8-C3 40-C3
CPU1_A*(22)	5-C4 8-C3 40-A2
CPU1_A*(13)	5-C4 8-C3 40-B2
CPU1_A*(26)	5-C4 8-C3 40-A2
CPU1_A*(6)	5-C4 8-C3 40-C3
CPU1_A*(24)	5-C4 8-C3 40-A2
CPU1_A*(18)	5-C4 8-C3 40-B2
CPU1_A*(14)	5-C4 8-C3 40-B2
CPU1_A*(5)	5-C4 8-C3 40-C3
CPU1_A*(15)	5-C4 8-C3 40-B2
CPU1_A*(16)	5-C4 8-C3 40-B2
CPU1_A*(27)	5-C4 8-C3 40-A2
CPU1_A*(10)	5-C4 8-C3 40-B2
CPU1_A*(28)	5-C4 8-C3 40-A2
CPU1_A*(31)	5-C4 8-C3 40-A2
CPU1_A*(30)	5-C4 8-C3 40-A2
CPU1_A*(11)	5-C4 8-C3 40-B2
CPU1_A*(20)	5-C4 8-C3 40-B2
CPU1_A*(21)	5-C4 8-C3 40-B2
CPU1_A*(12)	5-C4 8-C3 40-B2
CPU1_A*(7)	5-C4 8-C3 40-C3
CPU1_A*(29)	5-C4 8-C3 40-A2
CPU1_A*(19)	5-C4 8-C3 40-B2
CPU1_A*(9)	5-C4 8-C3 40-C3
CPU1_A*(17)	5-C4 8-C3 40-B2
CPU1_A*(4)	5-C4 8-C3 40-C3

Signal Name	Sheet Number - Location
CPU1_A*(23)	5-C4 8-C3 40-A2
CPU1_A*(25)	5-C4 8-C3 40-A2
CPU1_A*(31:3)	8-C3
CPU1_A*(16:3)	5-C4
CPU1_A*(31:17)	5-C4
CPU1_A20M*	5-B3 14-D2 40-C3
CPU1_ADS*	5-C3 8-D3 40-B4
CPU1_ADSTB0*	5-C4 8-B3 41-C4
CPU1_ADSTB1*	5-B4 8-B3 41-C4
CPU1_BNR*	5-C3 8-D3 40-B4
CPU1_BPM0*	6-B3 7-B2 40-C3
CPU1_BPM1*	6-B3 7-B2 40-C3
CPU1_BPM2*	6-B3 7-B2 40-C3
CPU1_BPM3*	6-B3 7-B2 40-C3
CPU1_BPRI*	5-C3 8-D3 40-C3
CPU1_BREQ*	5-C3 8-D3 40-C3
CPU1_CPURST*	5-C3 7-B1 8-C3 41-C4
CPU1_D*(20)	5-C2 8-D1 40-D2
CPU1_D*(25)	5-C2 8-D1 40-C2
CPU1_D*(4)	5-C2 8-D1 40-C3
CPU1_D*(12)	5-C2 8-D1 40-D2
CPU1_D*(45)	5-C1 8-D1 40-C2
CPU1_D*(50)	5-C1 8-D1 40-C2
CPU1_D*(7)	5-C2 8-D1 40-C3
CPU1_D*(8)	5-C2 8-D1 40-C3
CPU1_D*(32)	5-C1 8-D1 40-C2
CPU1_D*(27)	5-C2 8-D1 40-C2
CPU1_D*(14)	5-C2 8-D1 40-D2
CPU1_D*(54)	5-C1 8-D1 40-B2
CPU1_D*(39)	5-C1 8-D1 40-C2
CPU1_D*(33)	5-C1 8-D1 40-C2
CPU1_D*(53)	5-C1 8-D1 40-B2
CPU1_D*(24)	5-C2 8-D1 40-C2
CPU1_D*(44)	5-C1 8-D1 40-C2
CPU1_D*(16)	5-C2 8-D1 40-D2
CPU1_D*(36)	5-C1 8-D1 40-C2
CPU1_D*(3)	5-C2 8-D1 40-C3
CPU1_D*(28)	5-C2 8-D1 40-C2
CPU1_D*(41)	5-C1 8-D1 40-C2

Signal Name	Sheet Number - Location
CPU1_D*(59)	5-C1 8-D1 40-B2
CPU1_D*(15)	5-C2 8-D1 40-D2
CPU1_D*(35)	5-C1 8-D1 40-C2
CPU1_D*(2)	5-C2 8-D1 40-C3
CPU1_D*(22)	5-C2 8-D1 40-D2
CPU1_D*(43)	5-C1 8-D1 40-C2
CPU1_D*(42)	5-C1 8-D1 40-C2
CPU1_D*(17)	5-C2 8-D1 40-D2
CPU1_D*(37)	5-C1 8-D1 40-C2
CPU1_D*(58)	5-C1 8-D1 40-B2
CPU1_D*(11)	5-C2 8-D1 40-D2
CPU1_D*(49)	5-C1 8-D1 40-C2
CPU1_D*(40)	5-C1 8-D1 40-C2
CPU1_D*(10)	5-C2 8-D1 40-A2
CPU1_D*(34)	5-C1 8-D1 40-C2
CPU1_D*(0)	5-C2 8-D1 40-C3
CPU1_D*(61)	5-C1 8-D1 40-B2
CPU1_D*(31)	5-C2 8-D1 40-C2
CPU1_D*(51)	5-C1 8-D1 40-C2
CPU1_D*(29)	5-C2 8-D1 40-C2
CPU1_D*(9)	5-C2 8-D1 40-C3
CPU1_D*(60)	5-C1 8-D1 40-B2
CPU1_D*(26)	5-C2 8-D1 40-C2
CPU1_D*(46)	5-C1 8-D1 40-C2
CPU1_D*(21)	5-C2 8-D1 40-D2
CPU1_D*(1)	5-C2 8-D1 40-C3
CPU1_D*(62)	5-C1 8-D1 40-B2
CPU1_D*(13)	5-C2 8-D1 40-D2
CPU1_D*(63)	5-C1 8-D1 40-B2
CPU1_D*(48)	5-C1 8-D1 40-C2
CPU1_D*(5)	5-C2 8-D1 40-C3
CPU1_D*(52)	5-C1 8-D1 40-B2
CPU1_D*(23)	5-C2 8-D1 40-D2
CPU1_D*(6)	5-C2 8-D1 40-C3
CPU1_D*(30)	5-C2 8-D1 40-C2
CPU1_D*(18)	5-C2 8-D1 40-D2
CPU1_D*(38)	5-C1 8-D1 40-C2
CPU1_D*(19)	5-C2 8-D1 40-D2
CPU1_D*(55)	5-C1 8-D1 40-B2

Signal Name	Sheet Number - Location
CPU1_D*(57)	5-C1 8-D1 40-B2
CPU1_D*(47)	5-C1 8-D1 40-C2
CPU1_D*(56)	5-C1 8-D1 40-B2
CPU1_D*(63:0)	8-D1
CPU1_D*(63:48)	5-C1
CPU1_D*(47:32)	5-C1
CPU1_D*(15:0)	5-C2
CPU1_D*(31:16)	5-C2
CPU1_DBI0*	5-C2 8-B3 40-C3
CPU1_DBI1*	5-B2 8-A3 40-C3
CPU1_DBI2*	5-C1 8-A3 40-B3
CPU1_DBI3*	5-B1 8-A3 40-B3
CPU1_DBSY*	5-C3 8-D3 40-B3
CPU1_DEFER*	5-C3 8-D3 40-B2
CPU1_DPSLP*	6-C3 8-C3 14-D2 40-B2
CPU1_DPWR*	6-C3 8-C3 40-B3
CPU1_DRDY*	5-C3 8-D3 40-B3
CPU1_DSTBN0*	5-C2 8-B3 41-C4
CPU1_DSTBN1*	5-B2 8-B3 41-C4
CPU1_DSTBN2*	5-C1 8-A3 41-C4
CPU1_DSTBN3*	5-B 8-A3 41-C4
CPU1_DSTBP0*	5-C2 8-B3 41-C4
CPU1_DSTBP1*	5-B2 8-B3 41-C4
CPU1_DSTBP2*	5-C1 8-A3 41-B4
CPU1_DSTBP3*	5-B1 8-A3 41-B4
CPU1_FERR*	5-B3 14-D2 40-B3
CPU1_GTLREF0	6-B2 6-B4 41-B4
CPU1_HIT*	5-C3 8-D3 40-B4
CPU1_HITM*	5-C3 8-D3 40-B3
CPU1_IGNNE*	5-B3 14-D2 40-B2
CPU1_INIT*	5-C3 14-C2 17-C4 40-B3
CPU1_INTR	5-B3 14-C2 40-B4
CPU1_LOCK*	5-C3 8-D3 40-B3
CPU1_NMI	5-B3 14-C2 40-B4
CPU1_PRDY*	6-B3 7-B2 40-B3
CPU1_PREQ*	6-B3 7-B2 40-B3
CPU1_PSI*	6-A3 6-A4 35-C4 40-B4
CPU1_PWRGDCPU	6-C3 14-C2 41-C3
CPU1_REQ*(2)	5-C4 8-B3 41-B4

Signal Name	Sheet Number - Location
CPU1_REQ*(0)	5-C4 8-B3 41-B4
CPU1_REQ*(4)	5-C4 8-B3 41-B4
CPU1_REQ*(3)	5-C4 8-B3 41-B4
CPU1_REQ*(1)	5-C4 8-B3 41-B4
CPU1_REQ*(4:0)	5-C4 8-B3
CPU1_RS0*	5-B3 8-D3 40-B4
CPU1_RS1*	5-C3 8-D3 40-B4
CPU1_RS2*	5-C3 8-C3 40-B4
CPU1_SLP*	6-C3 14-D2 40-B4
CPU1_SMI*	5-B3 14-C2 40-B4
CPU1_STPCLK*	5-B3 14-C2 41-B4
CPU1_TCK	6-A2 7-B2 7-B1 40-A4
CPU1_TDI	6-A2 7-B1 40-A4
CPU1_TDO	6-A2 7-B1 40-A3
CPU1_THRMTRIP*	6-B3 7-C4 15-D3 41-A3
CPU1_TMS	6-A2 7-B1 40-A4
CPU1_TRDY*	5-C3 8-D3 40-B3
CPU1_TRST*	6-A2 7-B1 40-B3
CPU2_THERMDA	6-B3 7-D4 41-B4
CPU2_THERMDC	6-B3 7-D4 41-B4
CPU3_VID(1)	6-B3 35-B1 40-B2
CPU3_VID(2)	6-B3 35-B1 40-B2
CPU3_VID(0)	6-B3 35-B1 40-B2
CPU3_VID(4)	6-B3 35-B1 40-B2
CPU3_VID(3)	6-B3 35-B1 40-B2
CPU3_VID(5)	6-B3 35-B1 40-B2
CPU3_VID(5:0)	6-B3
FAN3_FDBACK*	16-C2 27-B2 41-A2
HDD3_LED*	26-B2 30-C4 40-B4
HDD5_A0	15-C2 26-C2 40-C4
HDD5_A1	15-C2 26-C2 40-C4
HDD5_A2	15-C2 26-C1 40-C4
HDD5_CS1*	15-C2 26-C2 40-B4
HDD5_CS3*	15-C2 26-C1 40-B4
HDD5_D(1)	15-C2 26-D2 40-A4
HDD5_D(3)	15-C2 26-D2 40-A4
HDD5_D(0)	15-C2 26-D2 40-B4
HDD5_D(9)	15-C2 26-D1 40-A4
HDD5_D(5)	15-C2 26-D2 40-A4

Signal Name	Sheet Number - Location
HDD5_D(4)	15-C2 26-D2 40-A4
HDD5_D(11)	15-C2 26-D1 40-B3
HDD5_D(10)	15-C2 26-D1 40-B3
HDD5_D(14)	15-C2 26-D1 40-B3
HDD5_D(7)	15-C2 26-D2 26-A3 40-A4
HDD5_D(2)	15-C2 26-D2 40-A4
HDD5_D(6)	15-C2 26-D2 40-A4
HDD5_D(8)	15-C2 26-D1 40-A4
HDD5_D(12)	15-C2 26-D1 40-B3
HDD5_D(13)	15-C2 26-D1 40-B3
HDD5_D(15)	15-C2 26-D1 40-B3
HDD5_D(0:7)	26-D2
HDD5_D(8:15)	26-D1
HDD5_D(0:15)	15-C2
HDD5_DACK*	15-C2 26-C2 40-B3
HDD5_DREQ	15-C2 26-D2 40-A4
HDD5_IOR*	15-C2 26-D2 40-A4
HDD5_IORDY	15-C2 26-C2 40-B3
HDD5_IOW*	15-C2 26-D2 40-D3
HDD5_LED*	26-B3 26-C2 40-D3
HP_IN	25-C1 25-B1 40-D4
HUB1_HL(5)	10-C2 14-C2 40-B3
HUB1_HL(4)	10-C2 14-C2 40-B3
HUB1_HL(10)	10-C2 14-C2 40-B2
HUB1_HL(0)	10-C2 14-C2 40-B3
HUB1_HL(9)	10-C2 14-C2 40-A3
HUB1_HL(8)	10-C2 14-C2 40-A3
HUB1_HL(1)	10-C2 14-C2 40-B3
HUB1_HL(7)	10-C2 14-C2 40-A3
HUB1_HL(3)	10-C2 14-C2 40-B3
HUB1_HL(2)	10-C2 14-C2 40-B3
HUB1_HL(6)	10-C2 14-C2 40-B3
HUB1_HL(0:10)	10-C2 14-C2
HUB1_HVSWING	14-C2 14-D1 41-B4
HUB1_REF_ICH	14-C2 14-D1 41-B4
HUB1_STB	10-C2 14-C2 40-A4
HUB1_STB*	10-C2 14-C2 40-D3
HUB_REF_MCH	10-C2 10-C1 40-B2
IMVP4_PWRGD	4-C4 27-B2 35-D1 40-B2

Signal Name	Sheet Number - Location
INV_VDC	21-C2 21-D4 33-A3 40-C4
ISA3_IRQ(14)	14-B2 14-C4 26-C2 41-B4
ISA3_IRQ(15)	14-B2 14-C4 26-B1 41-B4
ISL6225VCC_P5V	31-D3 31-C4 37-D4 37-B3 41-A2
ITP3_DBRESET*	5-C3 7-B1 41-C3
KBC3_A20G	14-C2 27-B1 40-D3
KBC3_ALERT*	15-D3 27-B2 40-B2
KBC3_BKLTON	21-C1 27-C4 40-B2
KBC3_BRIT	27-B2 33-A4 40- 3
KBC3_CAPSLED*	27-C4 30-C4 41-C3
KBC3_CD_CON1*	26-C4 27-C2 41-C3
KBC3_CD_CON2*	26-C3 27-C2 41-B3
KBC3_CHGEN	27-C2 33-B4 33-D4 40-A3
KBC3_CPURST*	14-C2 27-B2 41-B4
KBC3_CPUVRON	27-C1 35-A4 41-B4
KBC3_EXTSMI*	14-B2 27-C4 41-B4
KBC3_EZ_BTN0*	27-C4 30-C4 41-B3
KBC3_EZ_BTN1*	27-C4 30-C4 41-B3
KBC3_EZ_BTN2*	27-B4 30-C4 41-B3
KBC3_FANCTRL	16-A1 27-B2 41-B4
KBC3_IMVP4_PWRGD	14-B2 27-B2 41-A3
KBC3_LANGRST*	27-C2 28-A4 41-B3
KBC3_LBLED*	27-C4 30-A3 40-B2
KBC3_NUMLED*	27-C4 30-C4 41-B4
KBC3_PWRGD	15-D3 15-D4 27-C4 27-C1 40-A3
KBC3_PWRON	27-C4 30-D2 31-B4 31-A2 32-C2 34-C2 37-B4 40-A3
KBC3_PWRON*	34-A4 34-C2 34-A2 40-A2
KBC3_PWRSW*	27-D4 27-A2 30-C4 40-A2
KBC3_QS*	27-C2 33-B4 33-B1 40-A4
KBC3_QSLIM	27-B2 33-B4 40-A3
KBC3_RSMRST*	14-D2 15-D3 15-D4 22-B4 27-C2 41-B4
KBC3_RST*	27-D4 32-C4 40-D3
KBC3_RUNSCI*	14-B2 27-C4 41-B4
KBC3_SCLED*	27-C4 30-C4 40-A2
KBC3_SMCLK*	27-A2 33-B1 40-A2

Signal Name	Sheet Number - Location
KBC3_SMDATA*	27-A2 33-B1 41-B4
KBC3_SPDIF_ON*	25-B3 27-C4 41-A3
KBC3_SPKMUTE	25-C1 27-C4 41-B4
KBC3_SUSPWR	27-C2 30-D1 31-B4 34-C4
37-B1 37-B4 40-A2	
KBC3_SYSCHG	27-B2 30-C2 40-A2
KBC3_THERM_ALERT*	7-C3 7-C2 27-B2 41-A2
KBC3_THERM_SMCLK	7-D2 27-B2 41-A3
KBC3_THERM_SMDATA	7-D2 27-C2 41-D3
KBC3_VRON	27-C2 36-B4 36-B1 40-D3
KBC3_WAKESCI*	14-B2 27-B2 41-B3
KBC3_WLANON	24-C4 27-C4 40-A2
KBC3_WLAN_PWRBTN*	27-C4 30-C4 41-D3
KBC5_KCLK	27-D4 40-D3
KBC5_KDATA	27-D4 40-A3
KBC5_KSI(6)	27-B4 30-D3 40-D1
KBC5_KSI(1)	27-B4 30-D3 40-A2
KBC5_KSI(4)	27-B4 30-D3 40-D1
KBC5_KSI(7)	27-B4 30-D3 40-D1
KBC5_KSI(2)	27-B4 30-D3 40-A2
KBC5_KSI(3)	27-B4 30-D3 40-A2
KBC5_KSI(5)	27-B4 30-D3 40-D1
KBC5_KSI(0)	27-B4 30-D3 40-A2
KBC5_KSI(0:7)	27-B4 30-D3
KBC5_KSO(3)	27-B4 30-D3 40-D1
KBC5_KSO(2)	27-B4 30-D3 40-D1
KBC5_KSO(9)	27-B4 30-D3 40-C1
KBC5_KSO(0)	27-B4 30-D3 40-D1
KBC5_KSO(11)	27-B4 30-D3 41-B4
KBC5_KSO(6)	27-B4 30-D3 40-D1
KBC5_KSO(8)	27-B4 30-D3 40-D1
KBC5_KSO(15)	27-B4 30-D3 41-A4
KBC5_KSO(10)	27-B4 30-D3 41-B4
KBC5_KSO(13)	27-B4 30-D3 41-A4
KBC5_KSO(4)	27-B4 30-D3 40-D1
KBC5_KSO(5)	27-B4 30-D3 40-D1
KBC5_KSO(14)	27-B4 30-D3 41-A4
KBC5_KSO(7)	27-B4 30-D3 40-D1
KBC5_KSO(1)	27-B4 30-D3 40-D1

Signal Name	Sheet Number - Location
KBC5_KSO(12)	27-B4 30-D3 41-B4
KBC5_KSO(0:15)	27-B4 30-D3
KBC5_MCLK	27-D4 40-D3
KBC5_MDATA	27-C4 40-A3
KBC5_TCLK	27-C4 30-B3 40-D3
KBC5_TDATA	27-C4 30-B3 40-A3
LAN3_DFRAMEE	28-C2 41-A4
LAN3_DTOEE	28-C2 40-A3
LAN3_EECLK	28-C2 40-D3
LAN3_PME*	27-B2 28-A3 28-B4 40-D3
LAN_RX+	28-D1 28-B1 40-C4
LAN_RX-	28-D1 28-B1 40-C4
LAN_TX+	28-D1 28-B1 40-C4
LAN_TX-	28-D1 28-B1 40-C4
LCD3_BKLTON	21-C1 21-D4 40-C1
LCD3_SIC	21-D4 21-A4 41-A2
LCD5_BRIT	21-B1 33-A4 40-D3
LCD_VDD3V	21-C4 21-D2 40-D3
LED3_CHARGE	27-C2 30-B2 40-C1
LED5_AMBER	30-B3 30-B1 40-D3
LED5_GREEN	30-B3 30-B1 40-D3
LID3_SWITCH*	21-C2 25-B1 27-B4 41-A4
LPC3_LAD(3)	15-C3 17-B3 27-C2 40-C1
LPC3_LAD(0)	15-C3 17-B3 27-C2 40-C1
LPC3_LAD(2)	15-C3 17-B3 27-C2 40-C1
LPC3_LAD(1)	15-C3 17-B3 27-C2 40-C1
LPC3_LAD(0:3)	15-C3 17-B3 27-C2
LPC3_LDRQ0*	15-C3 40-C1
LPC3_LFRAME*	15-B3 17-B3 27-C2 41-A4
MCH1_HVSWING0	8-C4 8-B3 41-B3
MCH1_HVSWING1	8-B4 8-B3 41-B3
MDC_AUDIN	25-A4 29-B3 40-C3
MEM2_BS0	9-C31 1-C4 12-D3 40-A4
MEM2_BS1	9-C31 1-C4 12-D3 40-A4
MEM2_CB(3)	9-B2 12-B4 40-D3
MEM2_CB(1)	9-B2 12-B4 40-D3
MEM2_CB(5)	9-B2 12-B4 40-D3
MEM2_CB(6)	9-B2 12-B4 40-D3
MEM2_CB(4)	9-B2 12-B4 40-D3

Signal Name	Sheet Number - Location
MEM2_CB(7)	9-B2 12-B4 40-D3
MEM2_CB(2)	9-B2 12-B4 40-D3
MEM2_CB(0)	9-B2 12-B4 40-D3
MEM2_CB(7:0)	9-B2 12-B4
MEM2_CKE0	9-B3 11-C4 13-C1 40-C3
MEM2_CKE1	9-B3 11-B4 13-C1 40-C3
MEM2_CKE2	9-B3 11-C3 13-C1 40-C3
MEM2_CKE3	9-B3 11-B3 13-C1 40-C3
MEM2_CSA0*	9-B3 11-B4 13-D1 40-D3
MEM2_CSA1*	9-B3 11-B4 13-D1 40-D3
MEM2_CSA2*	9-B3 11-B3 13-D1 40-C3
MEM2_CSA3*	9-B3 11-B3 13-D1 40-C3
MEM2_DQS(3)	9-D4 12-C4 40-C1
MEM2_DQS(1)	9-D4 12-C4 40-C1
MEM2_DQS(5)	9-D4 12-C4 40-C1
MEM2_DQS(7)	9-D4 12-C4 40-C1
MEM2_DQS(0)	9-D4 12-C4 40-C1
MEM2_DQS(8)	9-D4 12-C4 40-C1
MEM2_DQS(6)	9-D4 12-C4 40-C1
MEM2_DQS(4)	9-D4 12-C4 40-C1
MEM2_DQS(2)	9-D4 12-C4 40-C1
MEM2_DQS(8:0)	9-D4 12-C4
MEM2_MAA(7)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(9)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(11)	9-D4 11-D4 12-D4 41-A4
MEM2_MAA(0)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(2)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(12)	9-D4 11-D4 12-D4 41-A4
MEM2_MAA(5)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(4)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(10)	9-D4 11-D4 12-D4 41-A4
MEM2_MAA(3)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(8)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(1)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(6)	9-D4 11-D4 12-D4 40-C1
MEM2_MAA(12:0)	9-D4 11-D4 12-D4
MEM2_MD(26)	9-D2 12-D3 40-B1
MEM2_MD(56)	9-D2 12-D3 41-D4
MEM2_MD(15)	9-D2 12-D3 40-B1

Signal Name	Sheet Number - Location
MEM2_MD(45)	9-D2 12-D3 40-A1
MEM2_MD(24)	9-D2 12-D3 40-B1
MEM2_MD(54)	9-D2 12-D3 41-D4
MEM2_MD(34)	9-D2 12-D3 40-B1
MEM2_MD(13)	9-D2 12-D3 40-B1
MEM2_MD(11)	9-D2 12-D3 40-B1
MEM2_MD(0)	9-D2 12-D3 40-C3
MEM2_MD(28)	9-D2 12-D3 40-B1
MEM2_MD(58)	9-D2 12-D3 41-D4
MEM2_MD(17)	9-D2 12-D3 40-B1
MEM2_MD(63)	9-D2 12-D3 41-C4
MEM2_MD(47)	9-D2 12-D3 40-A1
MEM2_MD(61)	9-D2 12-D3 41-D4
MEM2_MD(59)	9-D2 12-D3 41-D4
MEM2_MD(43)	9-D2 12-D3 40-A1
MEM2_MD(9)	9-D2 12-D3 40-C3
MEM2_MD(22)	9-D2 12-D3 40-B1
MEM2_MD(52)	9-D2 12-D3 41-D4
MEM2_MD(32)	9-D2 12-D3 40-B1
MEM2_MD(36)	9-D2 12-D3 40-B1
MEM2_MD(2)	9-D2 12-D3 40-C3
MEM2_MD(29)	9-D2 12-D3 40-B1
MEM2_MD(57)	9-D2 12-D3 41-D4
MEM2_MD(41)	9-D2 12-D3 40-A1
MEM2_MD(7)	9-D2 12-D3 40-C3
MEM2_MD(50)	9-D2 12-D3 41-D4
MEM2_MD(38)	9-D2 12-D3 40-B1
MEM2_MD(4)	9-D2 12-D3 40-C3
MEM2_MD(30)	9-D2 12-D3 40-B1
MEM2_MD(40)	9-D2 12-D3 40-A1
MEM2_MD(6)	9-D2 12-D3 40-C3
MEM2_MD(33)	9-D2 12-D3 40-B1
MEM2_MD(27)	9-D2 12-D3 40-B1
MEM2_MD(20)	9-D2 12-D3 40-B1
MEM2_MD(62)	9-D2 12-D3 41-C4
MEM2_MD(60)	9-D2 12-D3 41-D4
MEM2_MD(19)	9-D2 12-D3 40-B1
MEM2_MD(49)	9-D2 12-D3 40-A1
MEM2_MD(31)	9-D2 12-D3 40-B1

Signal Name	Sheet Number - Location
MEM2_MD(1)	9-D2 12-D3 40-C3
MEM2_MD(25)	9-D2 12-D3 40-B1
MEM2_MD(55)	9-D2 12-D3 41-D4
MEM2_MD(18)	9-D2 12-D3 40-B1
MEM2_MD(48)	9-D2 12-D3 40-A1
MEM2_MD(21)	9-D2 12-D3 40-B1
MEM2_MD(51)	9-D2 12-D3 41-D4
MEM2_MD(14)	9-D2 12-D3 40-B1
MEM2_MD(12)	9-D2 12-D3 40-B1
MEM2_MD(39)	9-D2 12-D3 40-A1
MEM2_MD(5)	9-D2 12-D3 40-C3
MEM2_MD(23)	9-D2 12-D3 40-B1
MEM2_MD(53)	9-D2 12-D3 41-D4
MEM2_MD(16)	9-D2 12-D3 40-B1
MEM2_MD(46)	9-D2 12-D3 40-A1
MEM2_MD(44)	9-D2 12-D3 40-A1
MEM2_MD(10)	9-D2 12-D3 40-C1
MEM2_MD(37)	9-D2 12-D3 40-B1
MEM2_MD(3)	9-D2 12-D3 40-C3
MEM2_MD(42)	9-D2 12-D3 40-A1
MEM2_MD(8)	9-D2 12-D3 40-C3
MEM2_MD(35)	9-D2 12-D3 40-B1
MEM2_MD(63:0)	9-D2 12-D3
MEM2_RBS0	11-C3 12-D2 13-C1 40-C3
MEM2_RBS1	11-C3 12-D2 13-C1 40-C3
MEM2_RCB(6)	11-C4 11-C3 12-B3 13-B4 41-C4
MEM2_RCB(4)	11-C4 11-C3 12-B3 13-B4 41-C4
MEM2_RCB(0)	11-C4 11-C3 12-B3 13-B4 41-C4
MEM2_RCB(2)	11-C4 11-C3 12-B3 13-B4 41-C4
MEM2_RCB(7)	11-C4 11-C3 12-B4 13-B4 41-C4
MEM2_RCB(5)	11-C4 11-C3 12-B3 13-B4 41-C4
MEM2_RCB(3)	11-C4 11-C3 12-B3 13-B4 41-C4

Signal Name	Sheet Number - Location
MEM2_RCB(1)	11-C4 11-C3 12-B3 13-B4 41-C4
MEM2_RCB(7:0)	11-C4 11-C3 12-B3 13-B4
MEM2_RDQS(8)	11-B4 11-B3 12-C3 13-C4 41-D3
MEM2_RDQS(7)	11-B4 11-B3 12-C3 13-C4 41-D3
MEM2_RDQS(5)	11-B4 11-B3 12-C3 13-C4 41-D3
MEM2_RDQS(1)	11-B4 11-B3 12-C3 13-C4 41-A4
MEM2_RDQS(3)	11-B4 11-B3 12-C3 13-C4 41-D3
MEM2_RDQS(0)	11-B4 11-B3 12-C3 13-C4 41-A4
MEM2_RDQS(4)	11-B4 11-B3 12-C3 13-C4 41-D3
MEM2_RDQS(2)	11-B4 11-B3 12-C3 13-C4 41-A4
MEM2_RDQS(6)	11-B4 11-B3 12-C3 13-C4 41-D3
MEM2_RDQS(8:0)	11-B4 11-B3 12-C3 13-C4
MEM2_RMAA(4)	11-D3 12-D3 13-D4 41-D3
MEM2_RMAA(2)	11-D3 12-D3 13-D4 41-D3
MEM2_RMAA(0)	11-D3 12-D3 13-D4 41-D3
MEM2_RMAA(12)	11-D3 12-D3 13-D4 41-B3
MEM2_RMAA(10)	11-D3 12-D3 13-D4 41-B3
MEM2_RMAA(8)	11-D3 12-D3 13-D4 41-C3
MEM2_RMAA(6)	11-D3 12-D3 13-D4 41-C3
MEM2_RMAA(5)	11-D3 12-D3 13-D4 41-D3
MEM2_RMAA(1)	11-D3 12-D3 13-D4 41-D3
MEM2_RMAA(7)	11-D3 12-D3 13-D4 41-C3
MEM2_RMAA(11)	11-D3 12-D3 13-D4 41-B3
MEM2_RMAA(9)	11-D3 12-D3 13-D4 41-C3
MEM2_RMAA(3)	11-D3 12-D3 13-D4 41-D3
MEM2_RMAA(12:0)	11-D3 12-D3 13-D4
MEM2_RMD(36)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(60)	11-D4 11-D3 12-D1 13-D3

Signal Name	Sheet Number - Location
	41-B3
MEM2_RMD(37)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(61)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(21)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(17)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(15)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(13)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(11)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(35)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(59)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(49)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(47)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(45)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(43)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(41)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(39)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(54)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(52)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(50)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(48)	11-D4 11-D3 12-D1 13-D3 41-B3

Signal Name	Sheet Number - Location
MEM2_RMD(20)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(42)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(0)1	11-D4 11-D3 12-D1 13-D3 41-C4
MEM2_RMD(24)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(3)	11-D4 11-D3 12-D1 13-D3 41-C4
MEM2_RMD(4)	11-D4 11-D3 12-D1 13-D3 41-C4
MEM2_RMD(28)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(7)	11-D4 11-D3 12-D1 13-D3 41-C4
MEM2_RMD(31)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(10)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(34)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(58)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(18)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(16)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(19)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(62)	11-D4 11-D3 12-D1 13-D3 41-A3
MEM2_RMD(22)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(63)	11-D4 11-D3 12-D1 13-D3 41-A3
MEM2_RMD(23)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(2)	11-D4 11-D3 12-D1 13-D3

Signal Name	Sheet Number - Location
	41-C4
MEM2_RMD(55)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(53)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(51)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(30)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(9)	11-D4 11-D3 12-D1 13-D3 41-C4
MEM2_RMD(33)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(57)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(46)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(44)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(40)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(38)	11-D4 11-D3 12-D1 13-D3 41-B3
MEM2_RMD(27)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(6)	11-D4 11-D3 12-D1 13-D3 41-C4
MEM2_RMD(14)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(12)	11-D4 11-D3 12-D1 13-D3 41-C3
MEM2_RMD(1)	11-D4 11-D312-D1 13-D3 41-C4
MEM2_RMD(25)	11-D4 11-D312-D1 13-D3 41-C3
MEM2_RMD(26)	11-D4 11-D312-D1 13-D3 41-C3
MEM2_RMD(5)	11-D4 11-D312-D113-D3 41-C4

Signal Name	Sheet Number - Location
MEM2_RMD(29)	11-D4 11-D312-D113-D3 41-C3
MEM2_RMD(8)	11-D4 11-D312-D113-D3 41-C4
MEM2_RMD(32)	11-D4 11-D312-D113-D3 41-C3
MEM2_RMD(56)	11-D4 11-D312-D1 13-D3 41-B3
MEM2_RMD(63:0)	11-D4 11-D312-D1 13-D3
MEM2_RSCASA*	11-B3 12-D213-C1 41-A3
MEM2_RSRASA*	11-B3 12-D213-C1 41-A3
MEM2_RSWEA*	11-B3 12-D213-C1 41-C4
MEM2_SCASA*	9-C3 11-B4 12-D3 41-C4
MEM2_SRASA*	9-C3 11-B4 12-D3 41-C4
MEM2_SWEA*	9-C3 11-B4 12-D3 40-C3
MSTRAPSEL(2)	19-B2 20-B2 41-A3
MSTRAPSEL(1)	19-B2 20-B2 41-A3
MSTRAPSEL(0)	19-B2 20-B2 41-A3
MSTRAPSEL(3)	19-B2 20-B2 41-A3
MS_RFU7	23-D2 23-B2 40-C4
MS_SCLK	23-D2 23-B2 40-B4
PCI3_AD(6)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(13)	14-D3 22-C4 24-D4 28-D4 41-C4
PCI3_AD(19)	14-D3 22-B4 22-C4 24-D4 28-D4 41-B4
PCI3_AD(9)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(4)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(1)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(0)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(10)	14-D3 22-C4 24-D4 28-D4 41-C4
PCI3_AD(16)	14-D3 22-C4 24-D4 28-D4 41-B4

Signal Name	Sheet Number - Location
PCI3_AD(26)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(21)	14-D3 22-C4 24-D4 28-D4 28-B4 41-B4
PCI3_AD(29)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(11)	14-D3 22-C4 24-D4 28-D4 41-C4
PCI3_AD(8)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(17)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(7)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(5)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(12)	14-D3 22-C4 24-D4 28-D4 41-C4
PCI3_AD(28)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(24)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(25)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(14)	14-D3 22-C4 24-D4 28-D4 41-C4
PCI3_AD(31)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(27)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(15)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(18)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(30)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(2)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(22)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(20)	14-D3 22-C4 24-D4 28-D4 41-B4
PCI3_AD(3)	14-D3 22-C4 24-D4 28-D4 40-C3
PCI3_AD(23)	14-D3 22-C4 24-D4 24-C2 28-D4 41-B4
PCI3_AD(0:31)	22-C4 24-D4 28-D4
PCI3_AD(31:0)	14-D3
PCI3_CBE0*	14-B3 22-B4 24-B2 28-C4 40-C3
PCI3_CBE1*	14-B3 22-B4 24-B4 28-B4 40-C3
PCI3_CBE2*	14-B3 22-B4 24-B4 28-B4 40-C3
PCI3_CBE3*	14-B3 22-B4 24-C4 28-B4 40-C3
PCI3_CLKRUN*	14-A2 14-D4 22-B4 24-B4 27-B2 28-B4 41-A3
PCI3_DEVSEL*	14-B3 14-D4 22-B4 24-B2 28-B4 41-A3
PCI3_FRAME*	14-B3 14-D4 22-B4 24-B2 28-B4 41-B4
PCI3_GNT0*	14-A3 14-C4 22-B4 40-B3
PCI3_GNT1*	14-C4 14-A3 40-B3
PCI3_GNT2*	14-B4 14-A3 24-C2 40-B3
PCI3_GNT3*	14-B4 14-A3 28-B4 40-B3
PCI3_GNT4*	14-B4 14-A3 40-B3
PCI3_INTA*	14-C2 14-C4 22-A4 40-B3
PCI3_INTB*	14-B2 14-C4 18-B4 22-A4 40-B3
PCI3_INTC*	14-B2 14-C4 22-A4 40-B3
PCI3_INTD*	14-B2 14-C4 28-B4 40-B3
PCI3_INTE*	14-C4 14-B2 24-C2 40-B3
PCI3_INTF*	14-C4 14-B2 24-C4 40-B3
PCI3_IRDY*	14-B3 14-D4 22-B4 24-B4 28-B4 40-B3
PCI3_PAR	14-B3 14-D4 22-B4 24-B2 28-B4 40-A4

Signal Name	Sheet Number - Location
PCI3_PERR*	14-B3 14-D4 22-B4 24-B4 28-B4 40-B3
PCI3_PLOCK*	14-B3 14-D4 41-B4
PCI3_REQ0*	14-B3 14-C4 22-B4 40-B3
PCI3_REQ1*	14-B3 14-C4 40-B3
PCI3_REQ2*	14-B3 14-C4 24-C4 40-B3
PCI3_REQ3*	14-B3 14-C4 28-B4 40-B3
PCI3_REQ4*	14-B3 14-C4 40-B3
PCI3_RST*	14-B1 18-B4 22-B4 24-C2 26-D4 26-D2 27-C2 28-B4 40-C3
PCI3_RSTF*	10-C2 14-B3 14-B1 17-B4 40-B3
PCI3_SERR*	14-B3 14-D4 22-B4 24-B4 28-B4 40-B3
PCI3_STOP*	14-B3 14-D4 22-B4 24-B2 28-B4 40-B3
PCI3_TRDY*	14-B3 14-C4 22-A4 24-B2 28-B4 40-B3
REF10	28-B3 28-D2 40-D4
REF100	28-B3 28-D2 40-C4
S1+	35-C4 35-D1 35-B4 40-D4
S1-	35-B4 35-D1 40-D4
S2+	35-B4 35-B1 35-B4 40-D4
S2-	35-B4 35-B1 40-D4
SIC3_BRIT	21-B1 21-D4 41-A2
SMB3_ALERT*	7-D2 15-D2 41-B4
SMB3_CLK	4-C3 7-D2 11-B4 11-B3 15-D2 40-A4
SMB3_DATA	4-C3 7-D2 11-B4 11-B3 15-D2 40-C3
SYSTEM_SENSE+	30-D2 33-C4 41-B3
SYSTEM_SENSE-	30-D1 33-C4 41-B3
USB3_OC0*	15-A3 15-B1 40-C3
USB3_OC1*	15-A3 15-B1 40-C3
USB3_OC2*	15-A3 15-B1 40-C3
USB3_OC3*	15-A3 15-B1 40-C3
USB3_OC4*	15-A3 15-B1 40-C3
USB3_OC5*	15-A3 15-B1 40-C3

Signal Name	Sheet Number - Location
USB3_P0+	15-B3 29-C4 40-A4
USB3_P0-	15-B3 29-C4 40-D4
USB3_P1+	15-B3 30-C2 40-D4
USB3_P1-	15-B3 30-C2 40-D4
USB3_P2+	15-B3 30-C1 40-D4
USB3_P2-	15-B3 30-C1 40-D4
USB3_P3+	15-B3 30-B4 40-D4
USB3_P3-	15-B3 30-B4 40-D4
USB3_P4+	15-B3 40-D4
USB3_P4-	15-B3 40-D4
USB3_P5+	15-B3 40-D4
USB3_P5-	15-B3 40-D4
VGA3_A0+	18-C2 21-D4 40-D4
VGA3_A0-	18-C2 21-D4 40-D4
VGA3_A1+	18-C2 21-C4 40-C4
VGA3_A1-	18-C2 21-D4 40-C4
VGA3_A2+	18-C2 21-C4 40-C4
VGA3_A2-	18-B2 21-C4 40-C4
VGA3_BKLTON	18-D3 21-C2 41-B4
VGA3_BLUE	18-C2 29-C2 40-C3
VGA3_C	18-C2 30-C1 40-C4
VGA3_CLK+	18-C2 21-C4 40-C3
VGA3_CLK-	18-C2 21-C4 40-C3
VGA3_DDCC	18-A2 21-D2 40-C3
VGA3_DDCD	18-A2 21-D2 40-C3
VGA3_DVOD(2)	19-A3 20-B2 41-D3
VGA3_DVOD(8)	19-A3 20-B2 41-D3
VGA3_DVOD(10)	19-A3 20-C2 41-B3
VGA3_DVOD(11)	19-A3 20-B2 41-B3
VGA3_DVOD(9)	19-A3 20-B2 41-D3
VGA3_DVOD(6)	19-A3 20-C2 41-D3
VGA3_DVOD(7)	19-A3 20-B2 41-D3
VGA3_DVOD(1)	19-A3 20-A2 41-A3
VGA3_DVOD(3)	19-A3 20-B2 41-D3
VGA3_DVOD(0)	19-A3 20-A2 41-A3
VGA3_DVOD(4)	19-A3 20-B2 41-D3
VGA3_DVOD(5)	19-A3 20-A2 41-D3
VGA3_DVOD(0:11)	19-A3
VGA3_DVOHSYNC	19-A2 20-C2 41-B3

Signal Name	Sheet Number - Location
VGA3_GPIO0	18-A2 18-C1 18-D3 40-B3
VGA3_GPIO7	18-C1 18-D3 31-A3 40-B3
VGA3_GREEN	18-C2 29-C2 40-B3
VGA3_HSYNC	18-C2 21-D2 40-B3
VGA3_LCDVDDON	18-D3 21-D3 41-B3
VGA3_RED	18-C2 29-C2 40-C4
VGA3_SSON	18-A2 18-D3 40-C3
VGA3_SSOUT	18-B1 18-B2 40-B3
VGA3_VIPD(7)	18-D3 20-C2 41-C3
VGA3_VIPD(0)	18-C4 18-D3 41-D3
VGA3_VIPD(3)	18-D3 20-C2 41-D3
VGA3_VIPD(4)	18-D3 20-C2 41-C3
VGA3_VIPD(1)	18-C4 18-D3 41-D3
VGA3_VIPD(6)	18-D3 20-C2 41-C3

Signal Name	Sheet Number - Location
VGA3_VIPD(2)	18-D3 20-C2 41-D3
VGA3_VIPD(5)	18-D3 20-C2 41-C3
VGA3_VIPD(0:7)	18-D3
VGA3_VIPHAD0	18-C4 18-D3 41-C3
VGA3_VIPHAD1	18-C4 18-D3 41-C3
VGA3_VSYNC	18-C2 21-D2 40-B3
VGA3_Y	18-C2 30-C2 40-C4
VGA5_DDCC	21-D1 29-B2 40-C3
VGA5_DDCD	21-D1 29-C2 40-C3
VGA5_HSYNC	21-D1 29-B2 40-A3
VGA5_VSYNC	21-D1 29-B2 40-A3
VOS-	35-B1 35-C4 40-D4
VTTPWRGD	27-C1 35-D3 6-B1 40-C4

7-1-3 Symbol Location

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
AR500-1	X10-12	2-C	AR510-2	X10-12	1-C	AR519-4	X10-12	1-B
AR500-2	X10-12	2-C	AR510-3	X10-12	1-B	AR520-1	X10-12	1-B
AR500-3	X10-12	3-B	AR510-4	X10-12	1-B	AR520-2	X10-12	1-B
AR500-4	X10-12	2-C	AR511-1	X10-12	1-B	AR520-3	X10-12	1-B
AR501-1	X10-12	2-C	AR511-2	X10-12	3-B	AR520-4	X10-12	1-B
AR501-2	X10-12	2-C	AR511-3	X10-12	1-B	AR521-1	X10-12	1-A
AR501-3	X10-12	2-B	AR511-4	X10-12	1-B	AR521-2	X10-12	1-A
AR501-4	X10-12	2-B	AR512-1	X10-12	2-C	AR521-3	X10-12	1-A
AR502-1	X10-12	3-B	AR512-2	X10-12	2-C	AR521-4	X10-12	1-A
AR502-2	X10-12	2-B	AR512-3	X10-12	2-C	AR522-1	X10-13	3-D
AR502-3	X10-12	2-B	AR512-4	X10-12	2-C	AR522-2	X10-13	3-D
AR502-4	X10-12	3-B	AR513-1	X10-12	2-C	AR522-3	X10-13	4-C
AR503-1	X10-12	2-B	AR513-2	X10-12	2-C	AR522-4	X10-13	3-C
AR503-2	X10-12	2-B	AR513-3	X10-12	2-B	AR523-1	X10-13	3-C
AR503-3	X10-12	2-B	AR513-4	X10-12	2-B	AR523-2	X10-13	3-C
AR503-4	X10-12	2-B	AR514-1	X10-12	2-B	AR523-3	X10-13	3-C
AR504-1	X10-12	3-A	AR514-2	X10-12	2-B	AR523-4	X10-13	4-B
AR504-2	X10-12	3-A	AR514-3	X10-12	2-B	AR524-1	X10-13	3-B
AR504-3	X10-12	4-B	AR514-4	X10-12	2-B	AR524-2	X10-13	4-B
AR504-4	X10-12	3-A	AR515-1	X10-12	2-A	AR524-3	X10-13	3-B
AR505-1	X10-12	3-A	AR515-2	X10-12	2-A	AR524-4	X10-13	3-B
AR506-1	X10-12	3-C	AR515-3	X10-12	2-A	AR525-1	X10-13	4-B
AR506-2	X10-12	3-C	AR515-4	X10-12	2-A	AR525-2	X10-13	3-B
AR506-3	X10-12	3-C	AR516-1	X10-12	3-A	AR525-3	X10-13	3-B
AR506-4	X10-12	3-C	AR516-2	X10-12	3-A	AR525-4	X10-13	3-B
AR507-1	X10-12	3-D	AR516-3	X10-12	3-A	AR526-1	X10-13	4-B
AR507-2	X10-12	3-D	AR516-4	X10-12	3-A	AR526-2	X10-13	4-B
AR507-3	X10-12	3-D	AR517-1	X10-12	3-C	AR526-3	X10-13	4-B
AR507-4	X10-12	3-C	AR517-2	X10-12	3-C	AR526-4	X10-13	4-A
AR508-1	X10-12	1-C	AR517-3	X10-12	3-C	AR527-1	X10-13	2-D
AR508-2	X10-12	1-C	AR517-4	X10-12	3-C	AR527-2	X10-13	2-D
AR508-3	X10-12	3-B	AR518-1	X10-12	1-C	AR527-3	X10-13	4-B
AR508-4	X10-12	1-C	AR518-2	X10-12	1-C	AR527-4	X10-13	2-C
AR509-1	X10-12	1-C	AR518-3	X10-12	1-C	AR528-1	X10-13	2-C
AR509-2	X10-12	1-C	AR518-4	X10-12	1-C	AR528-2	X10-13	2-C
AR509-3	X10-12	1-C	AR519-1	X10-12	1-C	AR528-3	X10-13	2-C
AR509-4	X10-12	3-B	AR519-2	X10-12	1-C	AR528-4	X10-13	4-B
AR510-1	X10-12	1-C	AR519-3	X10-12	1-B	AR529-1	X10-13	4-B

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
AR529-2	X10-13	2-B	AR538-4	X10-13	2-B	C100	X10-19	4-D
AR529-3	X10-13	2-B	AR539-1	X10-13	2-B	C101	X10-19	4-D
AR529-4	X10-13	2-B	AR539-2	X10-13	2-B	C102	X10-38	4-C
AR530-1	X10-13	2-B	AR539-3	X10-13	2-A	C103	X10-28	2-D
AR530-2	X10-13	4-B	AR539-4	X10-13	2-A	C104	X10-28	1-C
AR530-3	X10-13	2-B	B1	X10-33	1-C	C105	X10-28	4-D
AR530-4	X10-13	2-B	B2	X10-33	2-D	C106	X10-28	3-D
AR531-1	X10-13	3-C	B3	X10-33	2-D	C107	X10-28	2-A
AR531-2	X10-13	3-C	B4	X10-4	1-D	C108	X10-28	2-A
AR531-3	X10-13	3-C	B400	X10-39	3-B	C109	X10-28	2-A
AR531-4	X10-13	3-C	B401	X10-39	3-B	C11	X10-33	2-D
AR532-1	X10-13	3-C	B402	X10-39	2-D	C110	X10-38	4-D
AR532-2	X10-13	3-C	B403	X10-39	2-D	C111	X10-21	1-D
AR532-3	X10-13	3-C	B404	X10-39	2-D	C112	X10-19	4-C
AR532-4	X10-13	3-C	B5	X10-22	4-D	C113	X10-19	4-C
AR533-1	X10-13	3-B	B500	X10-33	1-D	C114	X10-19	1-D
AR533-2	X10-13	3-B	B501	X10-33	1-C	C115	X10-19	4-C
AR533-3	X10-13	3-B	B502	X10-21	2-B	C116	X10-19	1-D
AR533-4	X10-13	3-B	B503	X10-28	1-D	C117	X10-19	1-D
AR534-1	X10-13	3-B	B504	X10-28	1-D	C118	X10-19	4-D
AR534-2	X10-13	3-B	B505	X10-29	2-C	C119	X10-19	3-D
AR534-3	X10-13	3-A	B506	X10-29	2-C	C12	X10-35	4-C
AR534-4	X10-13	3-A	B507	X10-29	2-C	C120	X10-38	4-C
AR535-1	X10-13	4-A	B508	X10-28	1-C	C121	X10-19	4-D
AR535-2	X10-13	4-A	B509	X10-28	1-C	C122	X10-19	1-D
AR535-3	X10-13	4-A	B510	X10-29	1-C	C123	X10-19	1-D
AR535-4	X10-13	4-A	B511	X10-24	3-A	C124	X10-19	1-D
AR536-1	X10-13	2-C	B512	X10-4	1-D	C125	X10-6	3-B
AR536-2	X10-13	2-C	B513	X10-29	3-D	C126	X10-6	3-D
AR536-3	X10-13	2-C	B514	X10-25	2-B	C127	X10-6	2-D
AR536-4	X10-13	2-C	B515	X10-29	4-C	C128	X10-6	3-D
AR537-1	X10-13	2-C	B6	X10-22	3-D	C129	X10-6	3-D
AR537-2	X10-13	2-C	BC500	X10-17	3-C	C13	X10-35	3-C
AR537-3	X10-13	2-C	BC501	X10-17	3-C	C130	X10-6	3-D
AR537-4	X10-13	2-C	BC502	X10-17	3-C	C131	X10-6	3-D
AR538-1	X10-13	2-B	BC503	X10-17	3-C	C132	X10-6	3-D
AR538-2	X10-13	2-B	C1	X10-35	3-A	C133	X10-6	3-D
AR538-3	X10-13	2-B	C10	X10-33	1-C	C134	X10-6	3-D

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
C135	X10-6	3-D	C17	X10-35	4-D	C203	X10-9	1-B
C136	X10-28	2-A	C170	X10-9	1-C	C204	X10-9	2-D
C137	X10-28	1-C	C171	X10-10	1-C	C205	X10-9	2-B
C138	X10-28	2-D	C172	X10-9	2-C	C206	X10-9	3-B
C139	X10-28	4-D	C173	X10-9	2-C	C207	X10-8	1-B
C14	X10-35	3-C	C174	X10-9	2-C	C208	X10-9	2-C
C140	X10-28	2-A	C175	X10-10	1-B	C209	X10-9	2-D
C141	X10-28	4-D	C176	X10-9	1-C	C21	X10-33	4-C
C142	X10-28	2-A	C177	X10-8	1-B	C210	X10-9	1-D
C143	X10-19	1-D	C178	X10-8	1-D	C211	X10-4	1-D
C144	X10-19	4-C	C179	X10-9	1-B	C212	X10-4	1-D
C145	X10-9	2-C	C18	X10-38	4-D	C213	X10-4	2-D
C146	X10-9	1-C	C180	X10-9	2-B	C214	X10-7	3-D
C147	X10-9	1-C	C181	X10-9	1-B	C215	X10-4	2-D
C148	X10-9	2-B	C182	X10-8	1-B	C216	X10-30	3-B
C149	X10-19	4-C	C183	X10-8	1-D	C217	X10-30	3-B
C15	X10-35	3-D	C184	X10-9	2-C	C218	X10-27	4-D
C150	X10-6	3-C	C185	X10-9	2-C	C219	X10-9	1-D
C151	X10-6	3-C	C186	X10-8	4-C	C22	X10-33	4-C
C152	X10-6	3-C	C187	X10-7	4-D	C220	X10-9	1-D
C153	X10-6	3-C	C188	X10-7	2-B	C221	X10-9	1-D
C154	X10-6	3-C	C189	X10-27	1-B	C222	X10-9	1-D
C155	X10-6	3-C	C19	X10-36	3-D	C223	X10-9	2-D
C156	X10-6	3-C	C190	X10-27	1-B	C224	X10-9	2-D
C157	X10-6	3-C	C191	X10-27	4-D	C225	X10-9	2-D
C158	X10-6	3-C	C192	X10-27	2-A	C226	X10-9	1-D
C159	X10-6	3-B	C193	X10-27	4-D	C227	X10-9	1-D
C16	X10-35	3-C	C194	X10-38	4-D	C228	X10-4	2-B
C160	X10-34	2-C	C195	X10-9	4-B	C229	X10-4	2-B
C161	X10-9	1-C	C196	X10-9	2-D	C23	X10-33	3-C
C162	X10-9	2-C	C197	X10-9	2-B	C230	X10-4	2-B
C163	X10-8	4-C	C198	X10-9	2-B	C231	X10-4	2-B
C164	X10-9	2-C	C199	X10-9	3-B	C232	X10-4	2-D
C165	X10-6	2-C	C2	X10-35	4-A	C233	X10-4	2-D
C166	X10-6	2-C	C20	X10-33	2-C	C234	X10-4	1-C
C167	X10-27	2-B	C200	X10-9	1-D	C235	X10-4	1-C
C168	X10-24	3-D	C201	X10-9	1-B	C236	X10-4	1-C
C169	X10-9	1-C	C202	X10-9	1-D	C237	X10-4	1-C

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
C238	X10-34	1-A	C272	X10-31	1-C	C306	X10-22	1-A
C239	X10-34	1-A	C273	X10-38	4-C	C307	X10-25	4-A
C24	X10-21	2-D	C274	X10-38	4-C	C308	X10-25	4-A
C240	X10-38	4-B	C275	X10-16	4-B	C309	X10-25	4-D
C241	X10-38	4-C	C276	X10-16	4-B	C31	X10-35	2-D
C242	X10-25	4-B	C277	X10-16	3-D	C310	X10-25	4-A
C243	X10-25	4-B	C278	X10-16	4-B	C311	X10-25	4-C
C244	X10-26	3-B	C279	X10-16	4-C	C312	X10-25	2-B
C245	X10-26	3-B	C28	X10-35	2-C	C313	X10-31	3-D
C246	X10-31	3-D	C280	X10-16	4-C	C314	X10-22	2-C
C247	X10-31	3-D	C281	X10-16	4-C	C315	X10-22	2-C
C248	X10-31	4-C	C282	X10-16	4-D	C316	X10-22	3-C
C249	X10-4	2-B	C283	X10-16	4-B	C317	X10-22	3-C
C25	X10-21	2-D	C284	X10-16	3-D	C318	X10-22	2-C
C250	X10-4	2-B	C285	X10-16	4-B	C319	X10-22	2-C
C251	X10-4	2-B	C286	X10-16	3-D	C32	X10-36	3-D
C252	X10-4	2-B	C287	X10-38	4-C	C320	X10-22	2-C
C253	X10-4	1-B	C288	X10-26	1-C	C321	X10-22	2-D
C254	X10-4	1-B	C289	X10-31	4-C	C322	X10-22	2-D
C255	X10-4	1-B	C29	X10-35	2-C	C323	X10-22	3-D
C256	X10-16	4-C	C290	X10-31	4-C	C324	X10-22	3-D
C257	X10-16	4-C	C291	X10-31	2-D	C325	X10-22	3-D
C258	X10-16	4-C	C292	X10-16	4-C	C326	X10-23	3-D
C259	X10-16	2-D	C293	X10-23	3-D	C327	X10-23	1-C
C26	X10-21	3-C	C294	X10-22	4-D	C328	X10-22	1-A
C260	X10-31	2-D	C295	X10-38	4-B	C329	X10-23	1-C
C261	X10-31	2-D	C296	X10-38	4-B	C33	X10-36	4-D
C262	X10-31	2-C	C297	X10-23	1-D	C330	X10-25	3-D
C263	X10-31	2-D	C298	X10-22	1-A	C331	X10-25	4-D
C264	X10-31	2-B	C299	X10-22	4-D	C332	X10-25	3-D
C265	X10-16	4-B	C3	X10-35	4-B	C333	X10-25	4-B
C266	X10-16	4-B	C30	X10-35	2-D	C334	X10-25	4-B
C267	X10-16	4-C	C300	X10-30	2-A	C335	X10-25	2-C
C268	X10-16	4-D	C301	X10-31	3-D	C336	X10-25	4-C
C269	X10-16	4-B	C302	X10-23	3-D	C337	X10-25	4-C
C27	X10-21	2-C	C303	X10-22	1-A	C338	X10-25	4-C
C270	X10-16	4-C	C304	X10-22	4-D	C339	X10-25	2-C
C271	X10-26	1-C	C305	X10-22	1-A	C34	X10-33	2-C

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
C340	X10-25	1-D	C42	X10-28	1-B	C527	X10-38	4-B
C341	X10-25	1-C	C43	X10-19	3-D	C528	X10-32	4-C
C342	X10-25	1-D	C44	X10-19	4-B	C529	X10-32	3-C
C343	X10-23	1-A	C45	X10-18	2-C	C53	X10-16	2-B
C344	X10-23	1-A	C46	X10-18	2-C	C530	X10-28	1-B
C345	X10-23	2-D	C47	X10-18	2-C	C531	X10-19	2-A
C346	X10-22	3-D	C48	X10-19	3-B	C532	X10-38	4-D
C347	X10-22	3-D	C49	X10-19	4-B	C533	X10-31	2-A
C348	X10-22	4-D	C5	X10-35	3-B	C534	X10-31	3-A
C349	X10-22	4-D	C50	X10-19	3-D	C535	X10-36	4-C
C35	X10-33	2-C	C500	X10-35	3-B	C536	X10-30	3-D
C36	X10-33	3-D	C501	X10-36	1-C	C537	X10-30	3-D
C37	X10-33	3-D	C502	X10-36	2-D	C538	X10-18	1-A
C38	X10-21	3-B	C503	X10-36	4-C	C539	X10-18	1-A
C39	X10-35	2-C	C504	X10-36	3-D	C54	X10-16	2-B
C4	X10-35	3-B	C505	X10-33	1-D	C540	X10-38	4-D
C40	X10-35	2-D	C506	X10-33	4-A	C541	X10-29	2-C
C400	X10-39	2-C	C507	X10-33	1-C	C542	X10-29	2-C
C401	X10-39	2-B	C508	X10-32	4-B	C543	X10-29	2-C
C402	X10-39	1-B	C51	X10-19	4-A	C544	X10-38	4-C
C403	X10-39	1-B	C510	X10-35	4-C	C545	X10-35	1-C
C404	X10-39	4-B	C511	X10-35	4-C	C546	X10-35	1-C
C405	X10-39	2-C	C512	X10-36	2-D	C547	X10-6	2-D
C406	X10-39	4-B	C513	X10-36	2-D	C548	X10-6	3-D
C407	X10-39	2-B	C514	X10-33	3-A	C549	X10-6	3-D
C408	X10-39	2-B	C515	X10-33	2-D	C55	X10-16	1-B
C409	X10-39	3-B	C516	X10-33	2-D	C550	X10-35	1-C
C41	X10-28	1-B	C517	X10-33	3-C	C551	X10-35	1-C
C410	X10-39	2-B	C518	X10-33	3-D	C552	X10-28	1-C
C411	X10-39	2-B	C519	X10-21	4-C	C553	X10-18	2-B
C412	X10-39	1-B	C52	X10-19	4-D	C554	X10-18	2-B
C413	X10-39	2-D	C520	X10-33	1-B	C555	X10-29	4-B
C414	X10-39	2-D	C521	X10-33	2-C	C556	X10-29	4-B
C415	X10-39	2-D	C522	X10-33	4-B	C557	X10-28	3-B
C416	X10-39	4-C	C523	X10-33	3-C	C558	X10-28	3-B
C417	X10-39	1-D	C524	X10-38	4-B	C559	X10-28	2-A
C418	X10-39	4-D	C525	X10-21	2-B	C56	X10-31	3-B
C419	X10-39	4-D	C526	X10-31	3-B	C560	X10-24	3-D

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
C561	X10-34	3-C	C596	X10-27	3-D	C63	X10-18	2-D
C562	X10-34	4-C	C597	X10-27	3-D	C630	X10-11	1-B
C563	X10-29	1-C	C598	X10-24	2-D	C631	X10-11	1-B
C564	X10-29	1-C	C599	X10-29	3-C	C632	X10-11	1-B
C565	X10-29	1-B	C6	X10-36	1-C	C633	X10-11	1-B
C566	X10-29	1-B	C60	X10-28	1-D	C634	X10-13	1-B
C567	X10-38	4-C	C600	X10-29	3-C	C635	X10-13	1-B
C568	X10-6	4-B	C601	X10-4	3-B	C636	X10-11	1-B
C569	X10-28	1-C	C602	X10-4	4-B	C637	X10-13	1-B
C57	X10-38	4-B	C603	X10-4	1-D	C638	X10-11	1-B
C570	X10-28	2-C	C604	X10-14	1-D	C639	X10-11	1-B
C571	X10-24	1-B	C605	X10-27	3-D	C64	X10-18	2-D
C572	X10-24	1-B	C606	X10-27	3-D	C640	X10-11	1-B
C573	X10-24	1-B	C607	X10-27	3-D	C641	X10-11	1-A
C574	X10-34	3-C	C608	X10-27	3-A	C642	X10-23	3-A
C575	X10-29	1-C	C609	X10-27	3-A	C643	X10-15	4-C
C576	X10-29	1-B	C61	X10-18	2-A	C644	X10-15	2-D
C577	X10-29	1-B	C610	X10-26	4-B	C645	X10-15	4-C
C578	X10-29	1-C	C611	X10-14	1-C	C646	X10-37	4-C
C579	X10-10	1-B	C612	X10-37	1-C	C647	X10-37	3-D
C58	X10-38	4-C	C613	X10-37	2-D	C648	X10-37	4-D
C580	X10-6	4-B	C614	X10-31	3-D	C649	X10-38	4-C
C581	X10-6	4-B	C615	X10-37	3-D	C65	X10-18	2-D
C582	X10-24	1-B	C616	X10-37	2-D	C650	X10-13	1-B
C583	X10-34	1-C	C617	X10-37	2-C	C651	X10-13	1-B
C584	X10-34	3-A	C618	X10-37	1-C	C652	X10-13	1-B
C585	X10-6	3-B	C619	X10-37	2-D	C653	X10-11	1-B
C586	X10-6	3-B	C62	X10-18	2-A	C654	X10-13	1-B
C587	X10-6	4-B	C620	X10-37	1-D	C655	X10-13	1-B
C588	X10-34	1-C	C621	X10-37	3-C	C656	X10-13	1-B
C589	X10-34	3-A	C622	X10-37	3-D	C657	X10-13	1-B
C59	X10-30	4-D	C623	X10-26	2-C	C658	X10-13	1-B
C590	X10-7	2-B	C624	X10-37	4-C	C659	X10-13	1-B
C591	X10-38	4-B	C625	X10-26	2-C	C66	X10-18	2-D
C592	X10-10	1-D	C626	X10-11	2-B	C660	X10-11	1-A
C593	X10-10	1-C	C627	X10-11	1-B	C661	X10-13	1-B
C594	X10-4	2-B	C628	X10-11	1-B	C662	X10-13	1-B
C595	X10-27	3-C	C629	X10-11	1-B	C663	X10-11	1-A

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
C664	X10-13	1-B	C699	X10-11	1-A	C732	X10-32	1-C
C665	X10-13	1-B	C7	X10-36	2-D	C733	X10-32	1-C
C666	X10-13	1-B	C70	X10-19	3-C	C74	X10-19	4-B
C667	X10-13	1-B	C700	X10-13	1-B	C75	X10-19	3-D
C668	X10-13	1-B	C701	X10-13	1-B	C76	X10-19	4-B
C669	X10-11	1-A	C702	X10-13	1-B	C77	X10-19	4-D
C67	X10-18	2-D	C703	X10-13	1-B	C78	X10-19	1-D
C670	X10-13	1-B	C704	X10-13	1-B	C79	X10-19	3-D
C671	X10-13	1-B	C705	X10-11	1-A	C8	X10-36	2-D
C672	X10-13	1-B	C706	X10-13	1-B	C80	X10-19	1-D
C673	X10-13	1-B	C707	X10-13	1-B	C81	X10-6	3-D
C674	X10-13	1-B	C708	X10-13	1-B	C82	X10-6	3-D
C675	X10-11	1-B	C709	X10-23	1-C	C83	X10-6	3-D
C676	X10-13	1-B	C71	X10-19	1-D	C84	X10-6	3-D
C677	X10-13	1-B	C710	X10-22	1-A	C85	X10-6	3-D
C678	X10-22	1-A	C711	X10-37	3-B	C86	X10-6	3-D
C679	X10-16	1-D	C712	X10-37	4-B	C87	X10-6	4-D
C68	X10-19	3-D	C713	X10-23	3-A	C88	X10-6	4-D
C680	X10-16	1-D	C714	X10-25	3-B	C89	X10-6	4-D
C681	X10-16	1-D	C715	X10-25	3-B	C9	X10-36	3-C
C682	X10-11	1-B	C716	X10-25	3-B	C90	X10-6	3-D
C683	X10-13	1-B	C717	X10-25	2-D	C900	X10-39	1-C
C684	X10-13	1-B	C718	X10-25	2-B	C901	X10-39	2-C
C685	X10-11	1-B	C719	X10-38	4-D	C902	X10-26	3-B
C686	X10-13	1-B	C72	X10-19	1-D	C903	X10-28	1-D
C687	X10-13	1-B	C720	X10-25	1-B	C904	X10-28	1-D
C688	X10-11	1-B	C721	X10-23	1-A	C905	X10-38	3-C
C689	X10-13	1-B	C722	X10-38	4-C	C906	X10-38	3-C
C69	X10-19	3-D	C723	X10-25	3-D	C907	X10-38	3-B
C690	X10-11	1-B	C724	X10-25	3-C	C908	X10-38	3-B
C691	X10-13	1-B	C725	X10-25	2-B	C909	X10-38	3-B
C692	X10-13	1-B	C726	X10-25	1-C	C91	X10-6	2-D
C693	X10-13	1-B	C727	X10-25	2-C	C910	X10-38	3-B
C694	X10-11	1-A	C728	X10-25	1-C	C911	X10-38	3-C
C695	X10-13	1-B	C729	X10-25	1-C	C912	X10-38	3-C
C696	X10-13	1-B	C73	X10-19	4-B	C913	X10-38	3-D
C697	X10-11	1-A	C730	X10-32	2-C	C914	X10-38	3-D
C698	X10-13	1-B	C731	X10-38	4-D	C915	X10-38	3-C

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
C916	X10-38	3-C	D502	X10-35	2-C	J2	X10-29	4-A
C917	X10-38	3-D	D503	X10-33	2-D	J3	X10-24	3-A
C918	X10-38	3-D	D504	X10-33	2-D	J4	X10-7	2-B
C919	X10-38	3-C	D505	X10-31	3-B	J5-1	X10-11	3-A
C92	X10-28	2-B	D506	X10-29	1-D	J5-2	X10-11	1-B
C920	X10-38	3-C	D507	X10-29	3-C	J500	X10-33	1-D
C921	X10-38	3-B	D508	X10-29	4-C	J501	X10-30	1-C
C922	X10-38	3-B	D509	X10-26	1-B	J502	X10-21	4-C
C923	X10-38	3-C	D510	X10-33	1-B	J503	X10-28	1-D
C924	X10-38	3-C	D511	X10-33	1-B	J504	X10-16	1-B
C925	X10-35	3-A	D512	X10-37	2-D	J505	X10-30	4-C
C93	X10-38	4-C	D513	X10-26	2-B	J506	X10-29	1-C
C94	X10-38	4-D	D514	X10-16	1-D	J507-1	X10-5	4-B
C95	X10-19	3-C	D515	X10-16	1-D	J507-2	X10-5	2-B
C96	X10-19	3-D	D516	X10-32	1-C	J507-3	X10-6	3-A
C97	X10-19	4-D	D517-1	X10-39	4-C	J507-4	X10-6	2-B
C98	X10-19	4-D	D517-2	X10-39	3-C	J508	X10-29	3-C
C99	X10-19	4-D	D517-3	X10-39	3-C	J509	X10-30	4-B
CT1	X10-23	1-D	D517-4	X10-39	3-C	J510	X10-26	4-C
CT2	X10-23	3-D	D518-1	X10-39	3-C	J511	X10-23	4-A
CT3	X10-23	2-C	D518-2	X10-39	3-C	J512	X10-23	4-A
CT4	X10-23	2-D	D518-3	X10-39	3-C	J513	X10-16	1-D
CT400	X10-39	1-D	D519	X10-21	3-A	J514	X10-23	1-C
CT500	X10-24	3-D	D520	X10-15	3-D	J515	X10-30	2-B
CT501	X10-24	3-D	D521	X10-32	3-B	J516	X10-25	1-A
CT502	X10-24	4-D	D6	X10-21	1-D	J517	X10-22	1-D
CT503	X10-23	2-C	D7	X10-16	1-C	J6	X10-26	2-C
CT504	X10-23	2-C	D8	X10-30	4-A	J7-1	X10-11	4-A
CT505	X10-23	1-A	D9	X10-30	4-A	J7-2	X10-11	2-B
D1	X10-35	3-D	FD1	X10-38	2-C	J900	X10-39	3-B
D10	X10-31	2-D	FD2	X10-38	2-C	J901	X10-39	3-D
D11	X10-16	4-D	FD3	X10-38	2-C	J902	X10-39	3-C
D2	X10-36	2-D	FD4	X10-38	2-C	KBD500	X10-30	3-C
D3	X10-33	3-A	FD5	X10-38	2-B	L2	X10-31	1-C
D4	X10-33	2-D	FD6	X10-38	2-B	L3	X10-31	3-C
D5	X10-33	2-D	FD7	X10-38	2-B	L500	X10-36	1-C
D500	X10-32	4-C	FD8	X10-38	2-B	L501	X10-33	2-D
D501	X10-35	2-B	J1	X10-28	1-D	L502	X10-36	4-C

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
L503	X10-35	2-B	Q2	X10-35	4-A	Q532	X10-30	1-B
L504	X10-35	2-C	Q20	X10-4	4-C	Q6	X10-21	3-D
L505	X10-31	3-B	Q21	X10-26	4-B	Q7	X10-21	3-C
L506	X10-28	1-B	Q22	X10-31	2-C	Q8	X10-21	3-C
L507	X10-37	1-C	Q23	X10-31	3-C	Q9	X10-33	4-D
L508	X10-37	4-C	Q3	X10-33	2-C	QF500	X10-33	4-B
L509	X10-32	2-C	Q500	X10-36	2-C	QF501	X10-33	4-B
LT1	X10-28	1-B	Q501	X10-32	4-B	QF502	X10-33	4-B
LT501	X10-22	2-D	Q502	X10-35	2-B	R1	X10-35	4-A
LT502	X10-22	2-C	Q503	X10-35	2-B	R10	X10-33	2-D
MT1	X10-5	3-A	Q504	X10-35	2-B	R100	X10-28	3-C
MT10	X10-38	2-D	Q505	X10-35	2-B	R101	X10-28	4-B
MT11	X10-38	2-D	Q506	X10-35	2-C	R102	X10-21	2-D
MT12	X10-38	2-D	Q507	X10-35	2-C	R103	X10-21	2-D
MT13	X10-38	1-D	Q508	X10-35	2-D	R104	X10-21	1-D
MT14	X10-38	2-C	Q509	X10-35	2-D	R105	X10-21	2-D
MT15	X10-38	2-C	Q510	X10-36	3-C	R106	X10-21	1-D
MT16	X10-38	1-C	Q511	X10-31	3-A	R107	X10-20	2-D
MT17	X10-38	1-C	Q512	X10-21	3-A	R108	X10-20	3-D
MT2	X10-5	3-A	Q513	X10-31	3-A	R109	X10-20	3-D
MT3	X10-5	3-A	Q514	X10-21	3-A	R11	X10-33	2-D
MT4	X10-5	2-A	Q515	X10-31	3-B	R110	X10-20	3-D
MT5	X10-38	2-C	Q516	X10-31	2-A	R111	X10-6	2-B
MT6	X10-38	2-C	Q517	X10-17	4-C	R112	X10-6	2-B
MT7	X10-38	2-C	Q518	X10-17	4-C	R113	X10-28	3-A
MT8	X10-38	2-C	Q519	X10-34	4-C	R114	X10-28	4-A
MT9	X10-38	1-C	Q520	X10-34	3-C	R115	X10-28	4-A
Q1	X10-35	4-A	Q521	X10-34	2-C	R116	X10-28	4-A
Q10	X10-33	3-D	Q522	X10-34	4-A	R117	X10-34	2-C
Q11	X10-33	4-D	Q523	X10-27	1-A	R118	X10-6	4-A
Q12	X10-21	2-A	Q524	X10-26	4-B	R119	X10-14	4-D
Q13	X10-21	3-B	Q525	X10-37	2-C	R120	X10-14	4-D
Q14	X10-16	2-B	Q526	X10-37	3-C	R121	X10-34	2-C
Q15	X10-31	2-A	Q527	X10-30	2-B	R122	X10-34	2-C
Q16	X10-34	2-C	Q528	X10-30	2-B	R123	X10-10	4-B
Q17	X10-7	4-C	Q529	X10-37	4-B	R124	X10-18	1-C
Q18	X10-7	3-C	Q530	X10-30	1-B	R125	X10-10	2-C
Q19	X10-28	2-A	Q531	X10-30	1-B	R126	X10-10	4-B

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
R127	X10-10	4-B	R163	X10-9	4-B	R199	X10-31	2-C
R128	X10-10	3-A	R164	X10-10	2-C	R2	X10-35	4-B
R129	X10-7	1-B	R165	X10-10	2-B	R20	X10-35	4-C
R130	X10-8	4-C	R166	X10-8	1-B	R200	X10-31	2-C
R131	X10-8	4-B	R167	X10-4	2-D	R201	X10-31	4-C
R132	X10-8	3-A	R168	X10-4	3-C	R202	X10-31	4-C
R133	X10-8	3-A	R169	X10-4	3-C	R203	X10-25	3-D
R134	X10-6	2-A	R17	X10-21	3-C	R204	X10-15	1-B
R135	X10-6	3-A	R170	X10-4	3-C	R205	X10-16	3-D
R136	X10-7	1-B	R171	X10-4	3-C	R206	X10-14	2-B
R137	X10-7	1-B	R172	X10-7	3-D	R207	X10-14	2-B
R138	X10-7	1-B	R174	X10-15	3-D	R208	X10-14	2-A
R139	X10-6	3-C	R175	X10-7	4-C	R209	X10-15	1-B
R140	X10-14	2-D	R176	X10-7	3-C	R21	X10-35	4-C
R141	X10-6	2-A	R177	X10-7	4-C	R210	X10-14	4-C
R142	X10-14	4-D	R178	X10-27	4-D	R211	X10-15	1-C
R143	X10-14	4-D	R179	X10-16	1-C	R212	X10-15	1-B
R144	X10-34	4-A	R18	X10-21	3-C	R213	X10-16	3-D
R145	X10-18	1-D	R180	X10-4	2-B	R214	X10-15	1-C
R146	X10-18	1-C	R181	X10-4	4-C	R215	X10-14	4-B
R147	X10-10	1-B	R182	X10-34	2-A	R216	X10-14	4-C
R148	X10-10	1-B	R183	X10-25	4-B	R217	X10-14	2-B
R149	X10-8	1-B	R184	X10-25	4-B	R218	X10-14	2-A
R15	X10-21	3-D	R185	X10-25	4-B	R219	X10-7	3-D
R150	X10-8	4-C	R186	X10-26	4-D	R22	X10-35	4-B
R151	X10-8	4-C	R187	X10-31	3-C	R220	X10-15	4-D
R152	X10-15	3-D	R188	X10-31	3-B	R221	X10-14	4-C
R153	X10-7	1-B	R189	X10-31	3-C	R222	X10-14	4-C
R154	X10-7	1-B	R19	X10-21	3-C	R223	X10-14	4-C
R155	X10-5	3-C	R190	X10-31	3-C	R224	X10-14	4-C
R156	X10-7	1-B	R191	X10-31	3-C	R225	X10-14	2-B
R157	X10-7	1-B	R192	X10-31	4-C	R226	X10-14	2-B
R158	X10-27	2-B	R193	X10-31	4-C	R227	X10-23	1-D
R159	X10-27	4-D	R194	X10-14	2-B	R228	X10-14	4-D
R16	X10-21	3-D	R195	X10-14	2-C	R229	X10-14	4-B
R160	X10-27	4-D	R196	X10-37	2-C	R23	X10-35	4-B
R161	X10-27	4-D	R197	X10-37	2-C	R230	X10-15	3-D
R162	X10-27	4-D	R198	X10-31	2-C	R231	X10-26	2-A

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
R232	X10-26	2-D	R267	X10-25	2-C	R413	X10-39	2-D
R233	X10-23	3-B	R268	X10-25	1-D	R42	X10-21	3-B
R234	X10-22	2-B	R269	X10-25	1-D	R43	X10-28	1-B
R235	X10-22	2-B	R27	X10-35	3-C	R44	X10-18	2-C
R236	X10-22	2-B	R270	X10-25	1-D	R45	X10-19	3-B
R237	X10-14	4-B	R271	X10-31	3-B	R46	X10-18	4-C
R238	X10-14	4-C	R272	X10-32	2-C	R47	X10-18	4-C
R239	X10-30	2-A	R273	X10-23	2-C	R48	X10-20	1-C
R24	X10-35	4-C	R274	X10-25	2-C	R49	X10-20	1-C
R240	X10-23	1-D	R28	X10-35	3-C	R5	X10-35	3-B
R241	X10-23	1-D	R29	X10-36	1-B	R50	X10-19	4-A
R242	X10-23	1-D	R3	X10-35	3-A	R500	X10-35	3-B
R243	X10-22	3-C	R30	X10-33	4-D	R501	X10-35	4-B
R244	X10-22	4-B	R31	X10-33	4-D	R502	X10-35	4-B
R245	X10-25	2-B	R32	X10-33	4-D	R503	X10-35	4-B
R246	X10-25	4-A	R33	X10-33	4-D	R504	X10-35	4-B
R247	X10-25	4-A	R34	X10-33	3-C	R505	X10-35	4-A
R248	X10-25	4-D	R35	X10-33	3-C	R506	X10-35	4-A
R249	X10-25	4-A	R36	X10-21	1-C	R507	X10-35	4-B
R25	X10-35	4-C	R37	X10-33	2-C	R508	X10-35	4-B
R250	X10-25	2-B	R38	X10-33	3-C	R509	X10-35	4-D
R251	X10-25	4-A	R39	X10-21	2-C	R51	X10-19	4-A
R252	X10-25	2-B	R4	X10-35	3-B	R510	X10-36	1-C
R253	X10-23	1-D	R40	X10-21	3-A	R511	X10-36	2-C
R254	X10-23	1-D	R400	X10-39	2-C	R512	X10-36	2-C
R255	X10-22	3-C	R401	X10-39	2-C	R513	X10-36	2-B
R256	X10-22	3-C	R402	X10-39	3-A	R514	X10-36	1-C
R257	X10-22	2-D	R403	X10-39	4-B	R515	X10-36	1-C
R258	X10-22	2-D	R404	X10-39	3-A	R516	X10-36	2-D
R259	X10-22	2-C	R405	X10-39	2-B	R517	X10-36	3-B
R26	X10-35	3-D	R406	X10-39	2-B	R518	X10-36	3-C
R260	X10-22	2-D	R407	X10-39	1-B	R519	X10-36	3-C
R261	X10-22	2-D	R408	X10-39	1-B	R52	X10-19	4-A
R262	X10-23	3-D	R409	X10-39	3-A	R520	X10-36	4-C
R263	X10-22	3-A	R41	X10-21	3-A	R521	X10-33	4-A
R264	X10-23	2-D	R410	X10-39	2-D	R522	X10-33	4-A
R265	X10-25	4-C	R411	X10-39	2-D	R523	X10-33	4-A
R266	X10-25	4-C	R412	X10-39	2-D	R524	X10-35	4-B

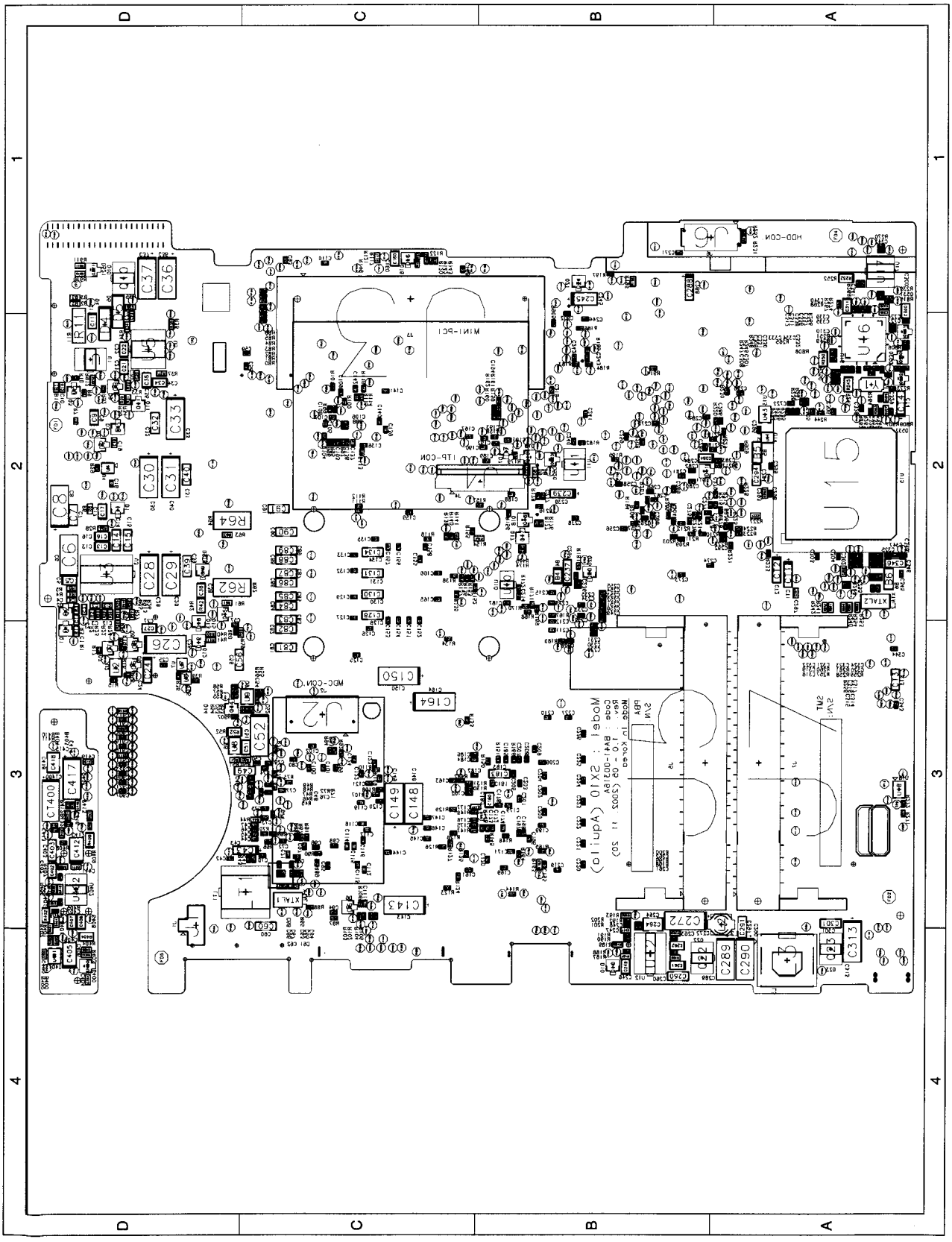
Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
R525	X10-33	3-A	R56	X10-16	2-A	R594	X10-20	1-A
R526	X10-33	3-A	R560	X10-20	1-B	R595	X10-18	3-A
R527	X10-33	3-A	R561	X10-20	1-B	R596	X10-20	1-A
R528	X10-33	4-C	R562	X10-20	1-B	R597	X10-18	3-A
R529	X10-33	4-C	R563	X10-20	2-B	R598	X10-29	2-C
R53	X10-16	2-B	R564	X10-20	2-B	R599	X10-29	2-C
R530	X10-21	1-C	R565	X10-20	1-B	R6	X10-35	3-A
R531	X10-33	1-C	R566	X10-20	1-B	R60	X10-31	3-B
R532	X10-33	1-C	R567	X10-20	1-C	R600	X10-19	3-B
R533	X10-33	1-C	R568	X10-20	1-B	R601	X10-29	2-C
R534	X10-33	2-C	R569	X10-20	1-B	R602	X10-18	1-C
R535	X10-33	2-C	R57	X10-16	1-B	R603	X10-18	4-C
R536	X10-33	2-C	R570	X10-20	1-B	R604	X10-18	4-C
R537	X10-33	3-B	R571	X10-20	1-B	R605	X10-18	4-C
R538	X10-33	3-B	R572	X10-19	2-A	R606	X10-18	4-C
R539	X10-33	3-C	R573	X10-20	1-B	R607	X10-18	4-C
R54	X10-16	1-B	R574	X10-19	2-A	R608	X10-18	4-C
R540	X10-33	4-C	R575	X10-19	2-A	R609	X10-28	1-B
R541	X10-33	4-C	R576	X10-18	2-C	R61	X10-35	1-B
R542	X10-33	4-B	R577	X10-18	4-C	R610	X10-28	1-B
R543	X10-33	4-B	R578	X10-18	4-C	R611	X10-17	4-B
R544	X10-33	4-B	R579	X10-18	4-C	R612	X10-17	4-C
R545	X10-33	4-B	R58	X10-16	1-B	R613	X10-17	4-C
R546	X10-33	2-A	R580	X10-20	1-C	R614	X10-17	4-C
R547	X10-21	2-B	R581	X10-20	1-C	R615	X10-18	4-B
R548	X10-21	2-B	R582	X10-20	1-C	R616	X10-6	4-B
R549	X10-21	3-A	R583	X10-20	1-C	R617	X10-6	3-A
R55	X10-16	1-A	R584	X10-20	1-C	R618	X10-6	3-A
R550	X10-21	3-B	R585	X10-31	3-B	R619	X10-28	4-B
R551	X10-32	4-C	R586	X10-31	3-A	R62	X10-35	2-B
R552	X10-32	4-D	R587	X10-31	2-B	R620	X10-28	3-C
R553	X10-32	4-C	R588	X10-31	3-A	R621	X10-17	4-C
R554	X10-28	1-D	R589	X10-31	2-B	R622	X10-17	4-C
R555	X10-28	1-D	R59	X10-31	3-A	R623	X10-17	4-C
R556	X10-28	1-B	R590	X10-31	2-A	R624	X10-24	3-C
R557	X10-28	1-B	R591	X10-35	1-B	R625	X10-14	4-C
R558	X10-20	2-B	R592	X10-26	2-B	R626	X10-34	4-C
R559	X10-20	2-A	R593	X10-18	1-A	R627	X10-17	4-B

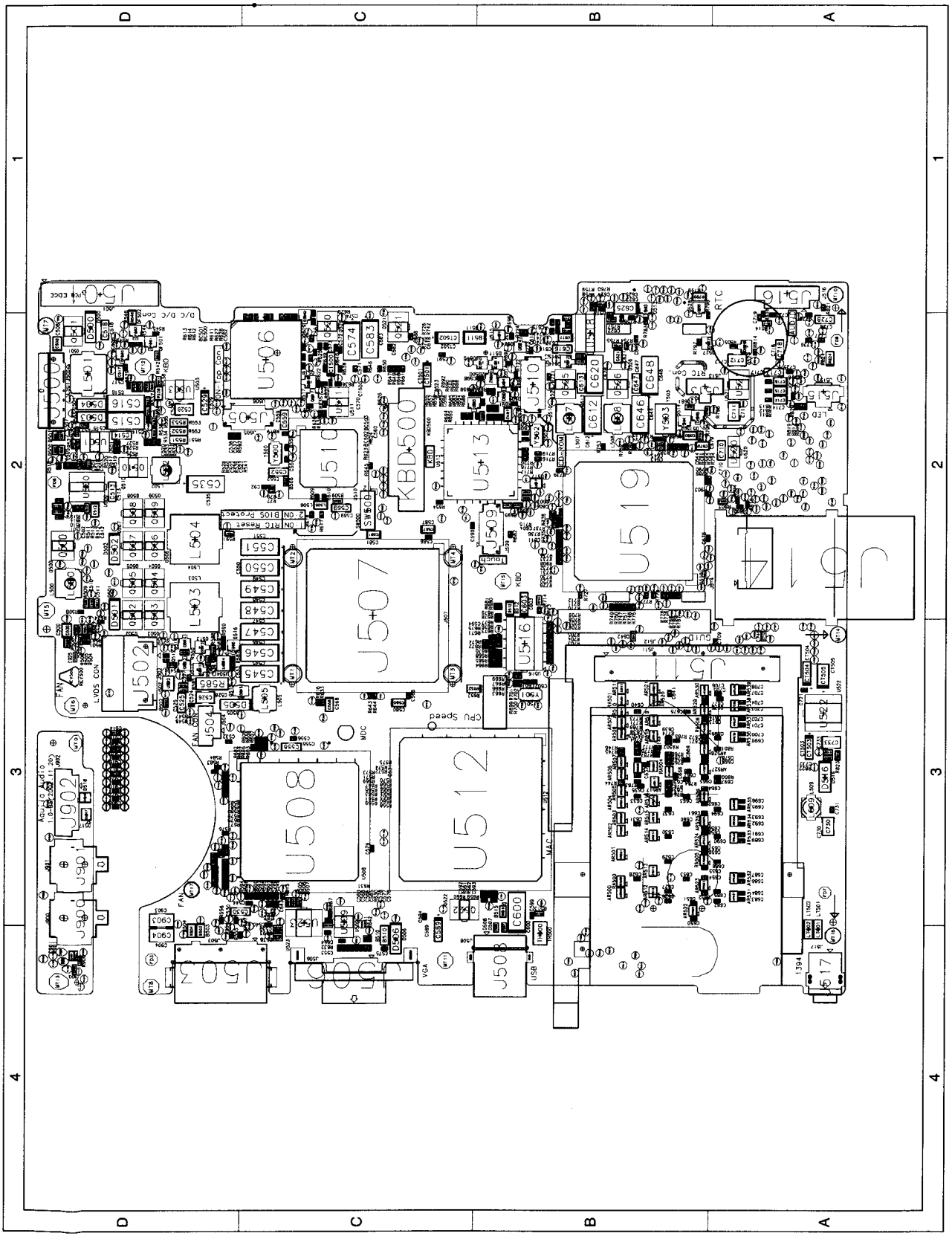
Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
R628	X10-34	4-C	R663	X10-4	3-C	R698	X10-26	4-B
R629	X10-34	3-C	R664	X10-4	3-C	R699	X10-4	3-C
R63	X10-35	1-C	R665	X10-4	3-C	R7	X10-36	4-C
R630	X10-29	2-B	R666	X10-4	3-C	R70	X10-20	1-C
R631	X10-29	2-C	R667	X10-4	3-C	R700	X10-4	3-C
R632	X10-18	1-B	R668	X10-4	3-C	R701	X10-4	3-D
R633	X10-6	4-B	R669	X10-4	3-C	R702	X10-4	3-D
R634	X10-28	2-C	R67	X10-18	4-C	R703	X10-4	2-C
R635	X10-28	2-C	R670	X10-4	3-C	R704	X10-4	2-C
R636	X10-28	2-C	R671	X10-4	3-C	R705	X10-4	2-C
R637	X10-14	4-C	R672	X10-4	3-C	R706	X10-4	2-C
R638	X10-14	4-B	R673	X10-4	2-B	R707	X10-4	2-C
R639	X10-14	4-C	R674	X10-4	3-C	R708	X10-4	2-C
R64	X10-35	2-C	R675	X10-4	3-C	R709	X10-4	2-C
R640	X10-14	4-C	R676	X10-4	3-C	R71	X10-20	1-C
R641	X10-29	2-B	R677	X10-4	2-B	R710	X10-4	2-C
R642	X10-29	2-B	R678	X10-7	3-D	R711	X10-4	2-C
R643	X10-6	2-B	R679	X10-7	3-D	R712	X10-4	2-C
R644	X10-6	2-B	R68	X10-18	4-B	R713	X10-4	4-C
R645	X10-28	4-B	R680	X10-7	3-D	R714	X10-4	4-C
R646	X10-24	2-C	R681	X10-7	3-D	R715	X10-14	1-D
R647	X10-14	4-D	R682	X10-27	4-D	R716	X10-14	4-C
R648	X10-14	4-D	R683	X10-27	3-D	R717	X10-27	2-B
R649	X10-14	4-C	R684	X10-27	3-D	R718	X10-27	2-D
R65	X10-18	2-D	R685	X10-27	3-D	R719	X10-15	4-D
R650	X10-14	4-D	R686	X10-27	3-D	R72	X10-18	4-C
R651	X10-14	4-D	R687	X10-27	3-D	R720	X10-27	3-D
R652	X10-6	4-B	R688	X10-27	3-D	R721	X10-26	3-C
R654	X10-7	1-B	R689	X10-27	3-D	R722	X10-26	2-B
R655	X10-28	2-A	R69	X10-20	1-C	R723	X10-26	4-B
R656	X10-27	2-D	R690	X10-27	2-A	R724	X10-26	4-B
R657	X10-27	3-D	R691	X10-26	4-D	R725	X10-37	1-C
R658	X10-27	1-A	R692	X10-27	2-A	R726	X10-37	1-C
R659	X10-10	1-C	R693	X10-27	1-A	R727	X10-15	3-A
R66	X10-20	1-C	R694	X10-33	1-B	R728	X10-15	1-B
R660	X10-10	1-D	R695	X10-33	1-B	R729	X10-15	1-B
R661	X10-10	1-D	R696	X10-26	2-A	R73	X10-20	1-C
R662	X10-10	1-C	R697	X10-26	4-C	R730	X10-26	3-C

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
R731	X10-26	3-C	R767	X10-12	2-D	R801	X10-13	1-D
R732	X10-15	1-C	R768	X10-13	1-C	R802	X10-22	3-B
R733	X10-26	3-C	R769	X10-13	1-C	R803	X10-22	3-A
R734	X10-26	3-C	R77	X10-28	2-B	R804	X10-22	3-B
R735	X10-14	1-D	R770	X10-12	2-D	R805	X10-37	4-B
R736	X10-14	1-D	R771	X10-13	1-C	R806	X10-30	1-B
R737	X10-14	1-D	R772	X10-12	2-D	R807	X10-30	1-B
R738	X10-14	1-D	R773	X10-13	1-D	R808	X10-30	1-B
R739	X10-14	2-D	R774	X10-13	1-D	R809	X10-30	1-B
R74	X10-18	1-C	R775	X10-15	1-B	R81	X10-17	3-B
R740	X10-37	2-C	R776	X10-14	4-C	R810	X10-22	4-B
R741	X10-37	2-B	R777	X10-15	3-C	R811	X10-25	3-B
R742	X10-37	1-C	R778	X10-14	4-C	R812	X10-25	4-B
R743	X10-37	2-C	R779	X10-15	1-C	R813	X10-25	4-B
R744	X10-12	4-C	R780	X10-26	2-D	R814	X10-37	4-B
R745	X10-12	2-D	R781	X10-15	4-C	R815	X10-30	1-B
R746	X10-12	2-D	R782	X10-15	4-C	R816	X10-25	2-B
R747	X10-15	1-B	R783	X10-26	3-B	R817	X10-25	3-C
R748	X10-15	1-B	R784	X10-13	1-C	R818	X10-25	3-C
R749	X10-15	1-B	R785	X10-13	1-D	R819	X10-25	3-C
R75	X10-19	1-C	R786	X10-14	4-C	R82	X10-17	3-B
R750	X10-15	1-B	R787	X10-14	4-C	R820	X10-25	4-D
R751	X10-15	1-B	R788	X10-14	4-C	R821	X10-25	2-A
R752	X10-14	4-C	R789	X10-15	2-D	R822	X10-32	1-C
R753	X10-14	4-C	R79	X10-28	2-B	R823	X10-32	1-C
R754	X10-37	3-B	R790	X10-15	2-D	R824	X10-25	2-B
R755	X10-37	3-C	R791	X10-15	2-D	R83	X10-17	3-B
R756	X10-37	3-C	R792	X10-14	4-B	R84	X10-17	4-B
R757	X10-37	2-D	R793	X10-14	4-B	R85	X10-17	4-B
R758	X10-37	4-C	R794	X10-14	4-B	R86	X10-17	4-C
R759	X10-37	4-C	R795	X10-16	1-D	R87	X10-18	1-C
R760	X10-37	4-C	R796	X10-16	1-D	R88	X10-18	2-B
R761	X10-13	4-B	R797	X10-30	2-B	R89	X10-18	3-A
R762	X10-13	1-C	R798	X10-30	2-B	R9	X10-33	2-C
R763	X10-13	1-C	R799	X10-30	2-B	R90	X10-18	3-A
R764	X10-13	4-C	R8	X10-36	4-C	R900	X10-39	1-C
R765	X10-13	1-C	R80	X10-17	3-B	R901	X10-39	2-C
R766	X10-13	1-C	R800	X10-13	1-C	R903	X10-14	2-A

Ref	Code	Part	Ref	Code	Part	Ref	Code	Part
R905	X10-26	4-C	RA504-3	X10-13	4-D	U506	X10-17	3-B
R907	X10-16	2-B	RA504-4	X10-13	4-D	U508-1	X10-18	3-A
R908	X10-15	1-B	RA505-1	X10-13	3-C	U508-2	X10-19	3-B
R909	X10-15	3-D	RA505-2	X10-13	3-C	U508-3	X10-20	4-A
R91	X10-18	4-C	RA505-3	X10-13	3-B	U509	X10-21	1-D
R910	X10-32	3-B	RA505-4	X10-13	3-B	U510	X10-28	4-A
R911	X10-32	3-B	RA506-1	X10-13	2-C	U511	X10-28	2-C
R912	X10-33	2-D	RA506-2	X10-13	2-C	U512-1	X10-8	3-A
R913	X10-35	4-C	RA506-3	X10-13	2-B	U512-2	X10-9	3-B
R914	X10-15	3-D	RA506-4	X10-13	2-B	U512-3	X10-10	3-B
R92	X10-19	1-C	REV500	X10-38	2-B	U513	X10-27	3-A
R93	X10-19	1-B	SW500	X10-16	1-C	U514	X10-26	1-B
R94	X10-19	2-B	TH500	X10-29	3-D	U515	X10-25	3-C
R95	X10-28	2-D	U1	X10-33	2-D	U516	X10-4	3-B
R96	X10-28	2-D	U10	X10-7	3-D	U517	X10-4	4-C
R97	X10-28	2-D	U11	X10-34	2-A	U518	X10-37	3-C
R98	X10-28	3-D	U12	X10-31	3-C	U519-1	X10-14	3-A
R99	X10-28	4-B	U13	X10-30	3-A	U519-2	X10-15	3-A
RA500-1	X10-12	2-C	U14	X10-14	1-B	U519-3	X10-16	3-A
RA500-2	X10-12	2-C	U15-1	X10-22	4-A	U520	X10-22	1-B
RA500-3	X10-12	2-C	U15-2	X10-23	3-A	U521	X10-37	4-B
RA500-4	X10-12	3-B	U16	X10-25	4-B	U522	X10-23	1-B
RA501-1	X10-12	3-B	U17	X10-25	1-C	U523	X10-18	1-A
RA501-2	X10-12	1-B	U18	X10-32	2-C	U6	X10-21	2-C
RA501-3	X10-12	1-B	U2	X10-21	3-D	U7	X10-21	1-C
RA501-4	X10-12	1-B	U3	X10-35	3-C	U8	X10-19	4-A
RA502-1	X10-13	4-C	U4	X10-27	1-C	U9	X10-16	1-B
RA502-2	X10-13	4-C	U400	X10-39	4-B	XTAL1	X10-18	2-A
RA502-3	X10-13	4-C	U401	X10-39	2-C	XTAL2	X10-22	2-C
RA502-4	X10-13	4-C	U402	X10-39	2-B	Y1	X10-25	4-B
RA503-1	X10-13	4-C	U5	X10-33	3-C	Y500	X10-28	3-B
RA503-2	X10-13	4-C	U500	X10-36	3-C	Y501	X10-4	3-C
RA503-3	X10-13	4-C	U501	X10-33	4-A	Y502	X10-27	3-A
RA503-4	X10-13	4-D	U502	X10-21	2-B	Y503	X10-15	4-C
RA504-1	X10-13	4-C	U503	X10-32	3-C	ZD500-1	X10-33	1-A
RA504-2	X10-13	4-D	U504	X10-31	3-B	ZD500-2	X10-33	1-A

7-1-4 PCB SilkScreen




D
C
B
A
1
2
3
4
U506
U507
U508
U512
U513
U519
KBD500
J501
J502
J503
J504
J505
J506
J507
J508
J509
J510
J511
J512
J513
J514
J515
J516
J517
J518
J519
J520
J521
J522
J523
J524
J525
J526
J527
J528
J529
J530
J531
J532
J533
J534
J535
J536
J537
J538
J539
J540

7-1-5 Parts List

Item No	품 명	Design LOC	Top/Bottom
0401-000191	DIODE-SWITCH INGMMBD4148,75V,200MA,SOT-23,TP	D510	TOP
0401-000191	DIODE-SWITCH INGMMBD4148,75V,200MA,SOT-23,TP	D511	TOP
0402-000511	DIODE-SCHOTTKYSS14,40V,1000MA,DO-214AC,TP	D516	TOP
0402-001097	DIODE-SCHOTTKYB140,40V,1000MA,DO-214AC,TP	D506	TOP
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D4	BOT
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D5	BOT
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D500	TOP
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D501	TOP
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D502	TOP
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D503	TOP
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D505	TOP
0404-000002	DIODE-SCHOTTKYCMPSH-3,30V,100mA,SOT-23,TP	D11	BOT
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D509	TOP
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D513	TOP
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D514	TOP
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D515	TOP
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D520	TOP
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D6	BOT
0404-000114	DIODE-SCHOTTKYMMBD301LT1,30V,-,SOT-23,TP	D7	BOT
0404-000157	DIODE-SCHOTTKYCMPSH-3A,30V,100mA,SOT-23,TP	D1	BOT
0404-000157	DIODE-SCHOTTKYCMPSH-3A,30V,100mA,SOT-23,TP	D10	TOP
0404-000157	DIODE-SCHOTTKYCMPSH-3A,30V,100mA,SOT-23,TP	D2	BOT
0404-000157	DIODE-SCHOTTKYCMPSH-3A,30V,100mA,SOT-23,TP	D512	TOP
0404-001020	DIODE-SCHOTTKYBAT54C,30V,200mA,SOT-23,TP	D521	TOP
0406-001005	DIODE-TVSSM05,6V/1mA,300,SOT-23	ZD500	TOP
0406-001141	DIODE-TVSPGB0010603NR,-/-/1000V,-,EIA-RS481	D507	TOP
0406-001141	DIODE-TVSPGB0010603NR,-/-/1000V,-,EIA-RS481	D508	TOP
0406-001141	DIODE-TVSPGB0010603NR,-/-/1000V,-,EIA-RS481	D8	BOT
0406-001141	DIODE-TVSPGB0010603NR,-/-/1000V,-,EIA-RS481	D9	BOT
0407-000112	DIODE-ARRAYBAV70,70V,200MA,CA2-3,SOT-23,TP	D3	BOT
0407-000112	DIODE-ARRAYBAV70,70V,200MA,CA2-3,SOT-23,TP	D519	TOP
0501-000458	TR-SMALL SIGNALKST2222ATF,NPN,350mW,SOT-23,TP	Q528	TOP
0501-000463	TR-SMALL SIGNALKST2907A,PNP,350mW,SOT-23,TP,1	Q527	TOP
0501-000465	TR-SMALL SIGNALMMBT3904,NPN,350MW,SOT-23,TP,30-300	Q17	BOT
0501-000465	TR-SMALL SIGNALMMBT3904,NPN,350MW,SOT-23,TP,30-300	Q18	BOT
0501-000465	TR-SMALL SIGNALMMBT3904,NPN,350MW,SOT-23,TP,30-300	Q20	BOT
0501-000465	TR-SMALL SIGNALMMBT3904,NPN,350MW,SOT-23,TP,30-300	Q517	TOP
0501-000465	TR-SMALL SIGNALMMBT3904,NPN,350MW,SOT-23,TP,30-300	Q518	TOP
0501-000466	TR-SMALL SIGNALKST3904,NPN,350mW,SOT-23,TP,10	Q530	TOP

Item No	품 명	Design LOC	Top/Bottom
0501-000466	TR-SMALL SIGNALKST3904,NPN,350mW,SOT-23,TP,10	Q531	TOP
0501-000466	TR-SMALL SIGNALKST3904,NPN,350mW,SOT-23,TP,10	Q532	TOP
0501-000481	TR-SMALL SIGNALKST92,PNP,225MW,SOT-23,TP,25	Q14	BOT
0504-000127	TR-DIGITAL KSR1102,NPN,200MW,10K/10K,SOT-23,TP	Q511	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q1	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q12	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q13	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q15	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q16	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q2	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q3	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q512	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q514	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q516	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q519	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q523	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q524	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q529	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q7	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q9	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	QF500	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	QF501	TOP
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	QF502	TOP
0505-001056	FET-SILICON IRF7205,P,-30V,-4.6A,0.070ohm,	Q10	BOT
0505-001056	FET-SILICON IRF7205,P,-30V,-4.6A,0.070ohm,	Q501	TOP
0505-001056	FET-SILICON IRF7205,P,-30V,-4.6A,0.070ohm,	U1	BOT
0505-001165	FET-SILICON SI3443DV,P,-20V,+-3.5mA,65mohm	Q515	TOP
0505-001341	FET-SILICON SI2307DS,P,-30V,-3A,0.08/0.14OHM,1.25W,SOT-23	Q11	BOT
0505-001341	FET-SILICON SI2307DS,P,-30V,-3A,0.08/0.14OHM,1.25W,SOT-23	Q8	BOT
0505-001507	FET-SILICON SI4465DY,P,-8V,+-14A,0.009ohm,2.5W,SO-8	Q520	TOP
0505-001507	FET-SILICON SI4465DY,P,-8V,+-14A,0.009ohm,2.5W,SO-8	Q521	TOP
0505-001507	FET-SILICON SI4465DY,P,-8V,+-14A,0.009ohm,2.5W,SO-8	Q522	TOP
0505-001507	FET-SILICON SI4465DY,P,-8V,+-14A,0.009ohm,2.5W,SO-8	U11	BOT
0505-001516	FET-SILICON SI2315DS,P,-12V,+-3.5A,0.118 ohm,1.25W,SOT-23	Q21	BOT
0505-001516	FET-SILICON SI2315DS,P,-12V,+-3.5A,0.118 ohm,1.25W,SOT-23	Q6	BOT
0505-001562	FET-SILICON,30V,5.3/7.7A,30/18.5MOHM,1W,SO-8	Q22	BOT
0505-001562	FET-SILICON,30V,5.3/7.7A,30/18.5MOHM,1W,SO-8	Q23	BOT
0505-001562	FET-SILICON,30V,5.3/7.7A,30/18.5MOHM,1W,SO-8	Q500	TOP
0505-001562	FET-SILICON,30V,5.3/7.7A,30/18.5MOHM,1W,SO-8	Q510	TOP

Item No	품 명	Design LOC	Top/Bottom
0505-001562	FET-SILICON,30V,5.3/7.7A,30/18.5MOHM,1W,SO-8	Q525	TOP
0505-001562	FET-SILICON,30V,5.3/7.7A,30/18.5MOHM,1W,SO-8	Q526	TOP
0505-001648	FET-SILICON IRF7811AV,N,30V,10.8A,11MOHM,2.5W,SO-8	Q502	TOP
0505-001648	FET-SILICON IRF7811AV,N,30V,10.8A,11MOHM,2.5W,SO-8	Q503	TOP
0505-001648	FET-SILICON IRF7811AV,N,30V,10.8A,11MOHM,2.5W,SO-8	Q505	TOP
0505-001648	FET-SILICON IRF7811AV,N,30V,10.8A,11MOHM,2.5W,SO-8	Q506	TOP
0505-001648	FET-SILICON IRF7811AV,N,30V,10.8A,11MOHM,2.5W,SO-8	Q507	TOP
0505-001648	FET-SILICON IRF7811AV,N,30V,10.8A,11MOHM,2.5W,SO-8	Q508	TOP
0801-002192	IC-CMOS LOGIC7S04,INVERTER,SOT-25,5P,63MIL,	U2	BOT
0801-002252	IC-CMOS LOGIC7S14,INVERTER,SOT-25,5P,63MIL,	U13	BOT
0801-002459	IC-CMOS LOGIC7SZ125,SIGNAL BUFFER,SOT-23,5P,3-STATE, 0.5VTO+6V,150	U514	TOP
0801-002459	IC-CMOS LOGIC7SZ125,SIGNAL BUFFER,SOT-23,5P,3-STATE, 0.5VTO+6V,150	U515	TOP
0801-002628	IC-CMOS LOGIC7SZ08,2-INPUT AND GATE,SC70,5P,49MIL, CMOS,150MW	U14	BOT
0801-002628	IC-CMOS LOGIC7SZ08,2-INPUT AND GATE,SC70,5P,49MIL, CMOS,150MW	U4	BOT
0801-002628	IC-CMOS LOGIC7SZ08,2-INPUT AND GATE,SC70,5P,49MIL, CMOS,150MW	U517	TOP
0801-002628	IC-CMOS LOGIC7SZ08,2-INPUT AND GATE,SC70,5P,49MIL, CMOS,150MW	U6	BOT
0801-002628	IC-CMOS LOGIC7SZ08,2-INPUT AND GATE,SC70,5P,49MIL, CMOS,150MW	U7	BOT
0902-001601	IC-MICROPROCESSOR BANIAS,64BIT,FCBGA,479P,1.3GHZ, 0.13U CMOS,IC,1.2V,29BIT	J507	TOP
0904-001719	IC-I/O CONTROLLER 82801DBM,32BIT,MBGA,421P,33,TR,CMOS, 3.3V,2W,32BIT	U519	TOP
0904-001731	IC-MEMORY CONT.ODEM,64BIT,FCBGA,593P,100MHZ,TR,CMOS, 1.2V,2W,29BI	U512	TOP
0904-001732	IC-BUS CONTROLLER R5C590,32BIT,BGA,272P,33MHZ,CMOS, 3.3V,32BIT	U15	BOT
0904-001733	IC-GRAPHIC CONT.GEFORCE4 420 32M,32BIT,PBGA,692P, 31X31MM,190/200MHZ,1.2V	U508	TOP
1001-001097	IC-ANALOG SWITCHFST3125,BUS SWITCH,TSSOP,14P,173MIL, 7V,4OHM,5.6NS,5.5NS	U509	TOP
1103-001239	IC-EEPROM S524C20D21,16KBIT,TSSOP,8P,5V,10%,PLASTIC, 1MA,CMOS,TP	U520	TOP
1103-001257	IC-EEPROM NM93C86ACLEM8,2048X8BIT,SOP,8P,4.1V,+-1.4,	U511	TOP

Item No	품 명	Design LOC	Top/Bottom
	1UA,CMOS,ST		
1107-001288	IC-FLASH MEMORYSST49LF004,512KX8BIT,PLCC,32P,120NS, 3.3V,10%,100UA	U506	TOP
1201-000167	IC-OP AMP358,SOP,8P,150MIL,DUAL,100V/mV	U501	TOP
1201-001125	IC-OP AMP75S01,SOP,5P,63MIL,SINGLE,100d	U502	TOP
1201-001125	IC-OP AMP75S01,SOP,5P,63MIL,SINGLE,100d	U9	BOT
1201-001559	IC-AUDIO AMP4863,TSSOP,20P,173MIL,DUAL,98dB,PLASTIC, 5.5V,2.45W	U17	BOT
1203-000473	IC-POSI.ADJUST REG.2951,SOP,8P,-,PLASTIC,4.95/5.0	U521	TOP
1203-001028	IC-POWER SUPERVISOR2563,SOP,28P,300MIL,PLASTIC,3.	U522	TOP
1203-001256	IC-VOLTAGE REGULATOR5205,SOT-23,5P,59MIL,PLASTIC,3	U8	BOT
1203-002203	IC-POSI.ADJUST REG.LP2951,SOP,8P,153MIL,PLASTIC, 3.267/3.333V,1.235V	U503	TOP
1203-002283	IC-DC/DC CONVERTER1930,SOT-23,5P,125C	U18	BOT
1203-002389	IC-DC/DC CONVERTERLTC1772B,SOT-23,6P,63MIL,1.8V/3.3V,20A	U504	TOP
1203-002486	IC-PWM CONTROLLERISL6225CA-T,SSOP,28P,153MIL,0.9/5.5V, 0.9V	U12	BOT
1203-002486	IC-PWM CONTROLLERISL6225CA-T,SSOP,28P,153MIL,0.9/5.5V, 0.9V	U500	TOP
1203-002486	IC-PWM CONTROLLERISL6225CA-T,SSOP,28P,153MIL,0.9/5.5V, 0.9V	U518	TOP
1203-002511	IC-PWM CONTROLLERMB3887,SSOP,24P,305MIL,740MW,60MA	U5	BOT
1203-002746	IC-SWITCH REG.LTC3735EG,SSOP,36P,12.8X5.3MM,1.342/1.37V, 5A,0.7/1.708V	U3	BOT
1205-002059	IC-ETHERNET CONTROLLER3C920-ST05,PBGA,176P,5V,1.5W	U510	TOP
1205-002251	IC-INTERFACECS4202,LQFP,48P,276MIL,5V,1.25W	U16	BOT
1205-002310	IC-CLOCK GENERATORICS91715AFT,SSOP,20P,6.9x5mm,3.3V, 0.5W	U523	TOP
1209-001370	IC-PLL/SYNTHESISERW320-03X,TSSOP,56P,3.3V,1W	U516	TOP
1209-001382	IC-TEMP. TRANSDUCERADM1032ARM,SOIC,8P,3.6V,650MW	U10	BOT
1404-001065	THERMISTOR-PTC0.11OHM,13.2VAC,40A,1.5A,TP	TH500	TOP
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R245	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R250	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R252	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R52	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R546	TOP
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R652	TOP
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R824	TOP
2007-000043	R-CHIP 1Kohm,1%,1/16W,DA,TP,1608	R549	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-000043	R-CHIP 1Kohm,1%,1/16W,DA,TP,1608	R910	
2007-000043	R-CHIP 1Kohm,1%,1/16W,DA,TP,1608	R912	
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R30	BOT
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R31	BOT
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R33	BOT
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R35	BOT
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R523	TOP
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R539	TOP
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R548	TOP
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R550	TOP
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R1	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R34	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R38	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R521	TOP
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R537	TOP
2007-000066	R-CHIP 20Kohm,1%,1/16W,DA,TP,1608	R522	TOP
2007-000067	R-CHIP 15Kohm,1%,1/16W,DA,TP,1608	R50	BOT
2007-000067	R-CHIP 15Kohm,1%,1/16W,DA,TP,1608	R823	TOP
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R189	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R196	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R263	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R27	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R591	TOP
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R6	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R61	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R63	BOT
2007-000071	R-CHIP 22ohm,5%,1/16W,DA,TP,1608	R632	TOP
2007-000074	R-CHIP 100ohm,5%,1/16W,DA,TP,1608	R796	TOP
2007-000092	R-CHIP 15Kohm,5%,1/16W,DA,TP,1608	R795	TOP
2007-000102	R-CHIP 100Kohm,5%,1/16W,DA,TP,1608	R803	TOP
2007-000109	R-CHIP 1Mohm,5%,1/16W,DA,TP,1608	R3	BOT
2007-000109	R-CHIP 1Mohm,5%,1/16W,DA,TP,1608	R913	
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R227	BOT
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R240	BOT
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R241	BOT
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R242	BOT
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R253	BOT
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R254	BOT
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R183	BOT

Item No	품 명	Design LOC	Top/Bottom
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R184	BOT
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R185	BOT
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R244	BOT
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R645	TOP
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R646	TOP
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R694	TOP
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R695	TOP
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R84	BOT
2007-000138	R-CHIP 100ohm,5%,1/16W,DA,TP,1005	R85	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R123	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R126	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R188	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R213	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R271	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R530	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R572	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R574	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R628	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R676	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R699	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R809	TOP
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R93	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R94	BOT
2007-000141	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1005	R103	BOT
2007-000141	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1005	R104	BOT
2007-000141	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1005	R106	BOT
2007-000141	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1005	R508	TOP
2007-000141	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1005	R524	TOP
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R113	BOT
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R122	BOT
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R17	BOT
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R186	BOT
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R248	BOT
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R592	TOP
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R626	TOP
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R780	TOP
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R793	TOP
2007-000143	R-CHIP 4.7Kohm,5%,1/16W,DA,TP,1005	R794	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R119	BOT

Item No	품 명	Design LOC	Top/Bottom
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R128	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R142	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R143	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R208	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R210	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R221	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R222	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R223	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R228	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R238	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R58	BOT
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R625	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R637	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R639	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R640	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R647	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R648	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R649	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R650	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R651	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R716	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R752	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R753	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R776	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R778	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R786	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R787	TOP
2007-000147	R-CHIP 8.2Kohm,5%,1/16W,DA,TP,1005	R788	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R100	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R101	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R107	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R120	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R121	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R144	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R145	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R15	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R159	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R16	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R160	BOT

Item No	품 명	Design LOC	Top/Bottom
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R161	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R162	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R167	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R172	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R178	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R179	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R18	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R181	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R182	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R194	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R203	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R204	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R206	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R217	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R218	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R219	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R225	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R226	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R229	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R230	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R234	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R236	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R246	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R247	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R256	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R266	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R272	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R273	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R29	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R36	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R39	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R46	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R48	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R49	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R545	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R558	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R559	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R56	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R560	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R561	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R562	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R563	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R564	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R565	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R566	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R567	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R569	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R570	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R573	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R575	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R577	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R578	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R580	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R581	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R582	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R587	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R594	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R595	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R596	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R597	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R600	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R602	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R603	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R604	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R605	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R607	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R611	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R612	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R613	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R614	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R619	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R620	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R627	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R629	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R634	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R635	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R636	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R658	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R66	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R67	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R678	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R679	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R680	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R681	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R682	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R683	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R684	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R69	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R690	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R692	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R698	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R702	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R71	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R713	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R717	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R72	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R721	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R722	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R723	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R724	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R728	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R729	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R730	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R734	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R74	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R747	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R748	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R749	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R750	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R751	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R783	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R789	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R792	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R80	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R802	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R804	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R806	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R807	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R81	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R815	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R82	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R820	TOP
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R83	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R86	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R87	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R903	
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R908	
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R909	
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R91	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R98	BOT
2007-000148	R-CHIP 10Kohm,5%,1/16W,DA,TP,1005	R99	BOT
2007-000152	R-CHIP 20Kohm,5%,1/16W,DA,TP,1005	R114	BOT
2007-000152	R-CHIP 20Kohm,5%,1/16W,DA,TP,1005	R235	BOT
2007-000152	R-CHIP 20Kohm,5%,1/16W,DA,TP,1005	R267	BOT
2007-000152	R-CHIP 20Kohm,5%,1/16W,DA,TP,1005	R274	BOT
2007-000156	R-CHIP 30Kohm,5%,1/16W,DA,TP,1005	R797	BOT
2007-000157	R-CHIP 47Kohm,5%,1/16W,DA,TP,1005	R269	BOT
2007-000157	R-CHIP 47Kohm,5%,1/16W,DA,TP,1005	R656	TOP
2007-000157	R-CHIP 47Kohm,5%,1/16W,DA,TP,1005	R693	TOP
2007-000157	R-CHIP 47Kohm,5%,1/16W,DA,TP,1005	R811	TOP
2007-000157	R-CHIP 47Kohm,5%,1/16W,DA,TP,1005	R812	TOP
2007-000157	R-CHIP 47Kohm,5%,1/16W,DA,TP,1005	R813	TOP
2007-000162	R-CHIP 100Kohm,5%,1/16W,DA,TP,1005	R19	BOT
2007-000162	R-CHIP 100Kohm,5%,1/16W,DA,TP,1005	R220	BOT
2007-000162	R-CHIP 100Kohm,5%,1/16W,DA,TP,1005	R55	BOT
2007-000162	R-CHIP 100Kohm,5%,1/16W,DA,TP,1005	R589	TOP
2007-000162	R-CHIP 100Kohm,5%,1/16W,DA,TP,1005	R719	TOP
2007-000162	R-CHIP 100Kohm,5%,1/16W,DA,TP,1005	R805	TOP
2007-000170	R-CHIP 1Mohm,5%,1/16W,DA,TP,1005	R239	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R115	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R205	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R207	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R243	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R251	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R255	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R262	BOT

Item No	품 명	Design LOC	Top/Bottom
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R264	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R516	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R615	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R624	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R662	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R68	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R697	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R735	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R738	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R757	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R791	TOP
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R914	
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R631	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R642	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R744	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R745	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R746	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R767	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R770	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R772	TOP
2007-000172	R-CHIP 10ohm,5%,1/16W,DA,TP,1005	R88	BOT
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R53	BOT
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R54	BOT
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R630	TOP
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R641	TOP
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R817	TOP
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R818	TOP
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R819	TOP
2007-000174	R-CHIP 47ohm,5%,1/16W,DA,TP,1005	R907	
2007-000239	R-CHIP 1.5Kohm,1%,1/16W,DA,TP,1608	R198	BOT
2007-000239	R-CHIP 1.5Kohm,1%,1/16W,DA,TP,1608	R512	TOP
2007-000239	R-CHIP 1.5Kohm,1%,1/16W,DA,TP,1608	R519	TOP
2007-000242	R-CHIP 1.5Kohm,1%,1/16W,DA,TP,1608	R177	BOT
2007-000242	R-CHIP 1.5Kohm,1%,1/16W,DA,TP,1608	R622	TOP
2007-000242	R-CHIP 1.5Kohm,1%,1/16W,DA,TP,1608	R95	BOT
2007-000265	R-CHIP 1.8Kohm,1%,1/16W,DA,TP,1608	R117	BOT
2007-000265	R-CHIP 1.8Kohm,1%,1/16W,DA,TP,1608	R520	TOP
2007-000265	R-CHIP 1.8Kohm,1%,1/16W,DA,TP,1608	R714	BOT
2007-000265	R-CHIP 1.8Kohm,1%,1/16W,DA,TP,1608	R740	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-000265	R-CHIP 1.8Kohm,1%,1/16W,DA,TP,1608	R755	TOP
2007-000277	R-CHIP 100KOHM,1%,1/10W,DA,TP,2012	R799	TOP
2007-000403	R-CHIP 150OHM,5%,1/8W,DA,TP,3216	R551	TOP
2007-000403	R-CHIP 150OHM,5%,1/8W,DA,TP,3216	R552	TOP
2007-000403	R-CHIP 150OHM,5%,1/8W,DA,TP,3216	R553	TOP
2007-000516	R-CHIP 2.7Kohm,1%,1/16W,DA,TP,1608	R187	BOT
2007-000543	R-CHIP 20KOHM,1%,1/10W,DA,TP,2012	R538	TOP
2007-000566	R-CHIP 220Kohm,5%,1/16W,DA,TP,1005	R124	BOT
2007-000566	R-CHIP 220Kohm,5%,1/16W,DA,TP,1005	R146	BOT
2007-000701	R-CHIP 3.6Kohm,1%,1/16W,DA,TP,1608	R510	TOP
2007-000736	R-CHIP 30Kohm,1%,1/16W,DA,TP,1608	R193	BOT
2007-000736	R-CHIP 30Kohm,1%,1/16W,DA,TP,1608	R540	TOP
2007-000736	R-CHIP 30Kohm,1%,1/16W,DA,TP,1608	R541	TOP
2007-000736	R-CHIP 30Kohm,1%,1/16W,DA,TP,1608	R547	TOP
2007-000828	R-CHIP 39Kohm,1%,1/16W,DA,TP,1608	R586	TOP
2007-000828	R-CHIP 39Kohm,1%,1/16W,DA,TP,1608	R59	BOT
2007-000856	R-CHIP 4.3KOHM,1%,1/10W,DA,TP,2012	R42	BOT
2007-000910	R-CHIP 43Kohm,1%,1/16W,DA,TP,1608	R911	
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R40	BOT
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R41	BOT
2007-000939	R-CHIP 47Kohm,1%,1/16W,DA,TP,1608	R37	BOT
2007-001119	R-CHIP 680ohm,5%,1/16W,DA,TP,1005	R137	BOT
2007-001292	R-CHIP 33ohm,5%,1/16W,DA,TP,1005	R102	BOT
2007-001292	R-CHIP 33ohm,5%,1/16W,DA,TP,1005	R105	BOT
2007-001292	R-CHIP 33ohm,5%,1/16W,DA,TP,1005	R232	BOT
2007-001292	R-CHIP 33ohm,5%,1/16W,DA,TP,1005	R233	BOT
2007-001292	R-CHIP 33ohm,5%,1/16W,DA,TP,1005	R691	TOP
2007-001292	R-CHIP 33ohm,5%,1/16W,DA,TP,1005	R777	TOP
2007-001298	R-CHIP 51ohm,5%,1/16W,DA,TP,1005	R108	BOT
2007-001298	R-CHIP 51ohm,5%,1/16W,DA,TP,1005	R109	BOT
2007-001298	R-CHIP 51ohm,5%,1/16W,DA,TP,1005	R110	BOT
2007-001298	R-CHIP 51ohm,5%,1/16W,DA,TP,1005	R89	BOT
2007-001298	R-CHIP 51ohm,5%,1/16W,DA,TP,1005	R90	BOT
2007-001306	R-CHIP 150ohm,5%,1/16W,DA,TP,1005	R138	BOT
2007-001306	R-CHIP 150ohm,5%,1/16W,DA,TP,1005	R715	TOP
2007-001306	R-CHIP 150ohm,5%,1/16W,DA,TP,1005	R736	TOP
2007-001313	R-CHIP 330ohm,5%,1/16W,DA,TP,1005	R118	BOT
2007-001313	R-CHIP 330ohm,5%,1/16W,DA,TP,1005	R139	BOT
2007-001313	R-CHIP 330ohm,5%,1/16W,DA,TP,1005	R175	BOT

Item No	품 명	Design LOC	Top/Bottom
2007-001313	R-CHIP 330ohm,5%,1/16W,DA,TP,1005	R176	BOT
2007-001313	R-CHIP 330ohm,5%,1/16W,DA,TP,1005	R621	TOP
2007-001313	R-CHIP 330ohm,5%,1/16W,DA,TP,1005	R623	TOP
2007-001433	R-CHIP 12Kohm,1%,1/16W,DA,TP,1608	R51	BOT
2007-001433	R-CHIP 12Kohm,1%,1/16W,DA,TP,1608	R535	TOP
2007-001433	R-CHIP 12Kohm,1%,1/16W,DA,TP,1608	R542	TOP
2007-002425	R-CHIP 1OHM,5%,1/16W,DA,TP,1608	R20	BOT
2007-002425	R-CHIP 1OHM,5%,1/16W,DA,TP,1608	R28	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R2	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R22	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R23	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R24	BOT
2007-002900	R-CHIP 11Kohm,1%,1/16W,DA,TP,1608	R514	TOP
2007-002906	R-CHIP 200Kohm,1%,1/16W,DA,TP,1608	R534	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R140	BOT
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R155	BOT
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R739	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R761	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R762	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R763	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R764	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R765	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R766	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R768	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R769	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R771	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R773	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R774	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R784	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R785	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R800	TOP
2007-002970	R-CHIP 56OHM,5%,1/16W,DA,TP,1005	R801	TOP
2007-002987	R-CHIP 4.75Kohm,1%,1/16W,DA,TP,1608	R500	TOP
2007-007009	R-CHIP 75OHM,5%,1/16W,DA,TP,1005	R554	TOP
2007-007009	R-CHIP 75OHM,5%,1/16W,DA,TP,1005	R555	TOP
2007-007009	R-CHIP 75OHM,5%,1/16W,DA,TP,1005	R556	TOP
2007-007009	R-CHIP 75OHM,5%,1/16W,DA,TP,1005	R557	TOP
2007-007095	R-CHIP 390OHM,5%,1/16W,DA,TP,1005	R43	BOT
2007-007100	R-CHIP 10MOHM,5%,1/16W,DA,TP,1005	R781	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-007100	R-CHIP 10MOHM,5%,1/16W,DA,TP,1005	R782	TOP
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R10	BOT
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R191	BOT
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R511	TOP
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R518	TOP
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R525	TOP
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R533	TOP
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R743	TOP
2007-007107	R-CHIP 100Kohm,1%,1/16W,DA,TP,1005	R756	TOP
2007-007134	R-CHIP 39Kohm,1%,1/16W,DA,TP,1005	R268	BOT
2007-007134	R-CHIP 39Kohm,1%,1/16W,DA,TP,1005	R270	BOT
2007-007136	R-CHIP 4.7Kohm,1%,1/16W,DA,TP,1005	R798	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R199	BOT
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R200	BOT
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R201	BOT
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R32	BOT
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R527	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R590	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R60	BOT
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R685	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R687	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R7	BOT
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R725	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R726	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R759	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R814	TOP
2007-007142	R-CHIP 10Kohm,1%,1/16W,DA,TP,1005	R9	BOT
2007-007265	R-CHIP 232Kohm,1%,1/16W,DA,TP,1608	R504	TOP
2007-007306	R-CHIP 100ohm,1%,1/16W,DA,TP,1005	R166	BOT
2007-007306	R-CHIP 100ohm,1%,1/16W,DA,TP,1005	R501	TOP
2007-007306	R-CHIP 100ohm,1%,1/16W,DA,TP,1005	R503	TOP
2007-007307	R-CHIP 150ohm,1%,1/16W,DA,TP,1005	R131	BOT
2007-007307	R-CHIP 150ohm,1%,1/16W,DA,TP,1005	R150	BOT
2007-007307	R-CHIP 150ohm,1%,1/16W,DA,TP,1005	R659	TOP
2007-007307	R-CHIP 150ohm,1%,1/16W,DA,TP,1005	R660	TOP
2007-007312	R-CHIP 20Kohm,1%,1/16W,DA,TP,1005	R528	TOP
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R147	BOT
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R148	BOT
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R45	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R513	BOT
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R517	TOP
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R616	TOP
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R741	TOP
2007-007318	R-CHIP 1Kohm,1%,1/16W,DA,TP,1005	R754	TOP
2007-007334	R-CHIP 200Kohm,1%,1/16W,DA,TP,1005	R515	TOP
2007-007334	R-CHIP 200Kohm,1%,1/16W,DA,TP,1005	R758	TOP
2007-007352	R-CHIP 130Kohm,1%,1/16W,DA,TP,1608	R822	TOP
2007-007469	R-CHIP 110ohm,1%,1/16W,DA,TP,1005	R65	BOT
2007-007489	R-CHIP 150Kohm,1%,1/16W,DA,TP,1005	R158	TOP
2007-007548	R-CHIP 39.2ohm,1%,1/16W,DA,TP,1608	R154	TOP
2007-007568	R-CHIP 0.033ohm,1%,1W,DA,TP,6331	R11	BOT
2007-007568	R-CHIP 0.033ohm,1%,1W,DA,TP,6331	R585	TOP
2007-007585	R-CHIP 430Kohm,1%,1/16W,DA,TP,1005	R536	TOP
2007-007697	R-CHIP 2.4Kohm,1%,1/16W,DA,TP,1005	R529	TOP
2007-007766	R-CHIP 2KOHM,1%,1/16W,DA,TP,1005	R633	TOP
2007-007792	R-CHIP 221OHM,1%,1/16W,DA,TP,1005	R654	TOP
2007-007938	R-CHIP 6.65Kohm,1%,1/16W,DA,TP,1608	R760	TOP
2007-007942	R-CHIP 1Mohm,1%,1/16W,DA,TP,1005	R531	TOP
2007-007942	R-CHIP 1Mohm,1%,1/16W,DA,TP,1005	R532	TOP
2007-007946	R-CHIP 470KOHM,1%,1/16W,DA,TP,1005	R202	BOT
2007-007946	R-CHIP 470KOHM,1%,1/16W,DA,TP,1005	R543	TOP
2007-007946	R-CHIP 470KOHM,1%,1/16W,DA,TP,1005	R544	TOP
2007-007946	R-CHIP 470KOHM,1%,1/16W,DA,TP,1005	R686	TOP
2007-007968	R-CHIP 12.7Kohm,1%,1/16W,DA,TP,1608	R505	TOP
2007-007968	R-CHIP 12.7Kohm,1%,1/16W,DA,TP,1608	R506	TOP
2007-008015	R-CHIP 75ohm,1%,1/16W,DA,TP,1005	R576	TOP
2007-008015	R-CHIP 75ohm,1%,1/16W,DA,TP,1005	R598	TOP
2007-008015	R-CHIP 75ohm,1%,1/16W,DA,TP,1005	R599	TOP
2007-008015	R-CHIP 75ohm,1%,1/16W,DA,TP,1005	R601	TOP
2007-008026	R-CHIP 56ohm,1%,1/16W,DA,TP,1005	R152	BOT
2007-008026	R-CHIP 6ohm,1%,1/16W,DA,TP,1005	R174	BOT
2007-008113	R-CHIP 63.4ohm,1%,1/16W,DA,TP,1608	R44	BOT
2007-008116	R-CHI P30.1ohm,1%,1/10W,DA,TP,1608	R163	BOT
2007-008133	R-CHIP 56.2Kohm,1%,1/16W,DA,TP,1608	R507	TOP
2007-008228	R-CHIP 0.002OHM,5%,1W,DA,TP,6.35X3.28X0.635MM	R62	BOT
2007-008228	R-CHIP 0.002OHM,5%,1W,DA,TP,6.35X3.28X0.635MM	R64	BOT
2007-008263	R-CHIP 3KOHM,1%,1/16W,-,TP,1005	R808	TOP
2007-008293	R-CHIP 475OHM,1%,1/16W,DA,TP,1005	R673	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R180	BOT
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R663	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R666	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R667	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R669	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R677	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R703	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R704	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R705	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R706	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R707	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R708	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R709	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R710	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R711	TOP
2007-008294	R-CHIP 33OHM,1%,1/16W,DA,TP,1005	R712	TOP
2007-008295	R-CHIP 43KOHM,1%,1/16W,DA,TP,1005	R192	BOT
2007-008298	R-CHIP 49.9OHM,1%,1/16W,DA,TP,1005	R149	BOT
2007-008298	R-CHIP 49.9OHM,1%,1/16W,DA,TP,1005	R664	TOP
2007-008298	R-CHIP 49.9OHM,1%,1/16W,DA,TP,1005	R665	TOP
2007-008298	R-CHIP 49.9OHM,1%,1/16W,DA,TP,1005	R668	TOP
2007-008298	R-CHIP 49.9OHM,1%,1/16W,DA,TP,1005	R670	TOP
2007-008298	R-CHIP 49.9OHM,1%,1/16W,DA,TP,1005	R674	TOP
2007-008299	R-CHIP 61.9OHM,1%,1/16W,DA,TP,1005	R609	TOP
2007-008299	R-CHIP 61.9OHM,1%,1/16W,DA,TP,1005	R610	TOP
2007-008300	R-CHIP 5.11KOHM,1%,1/16W,DA,TP,1005	R259	BOT
2007-008300	R-CHIP 5.11KOHM,1%,1/16W,DA,TP,1005	R57	BOT
2007-008301	R-CHIP 56.2OHM,1%,1/16W,DA,TP,1005	R257	BOT
2007-008301	R-CHIP 56.2OHM,1%,1/16W,DA,TP,1005	R258	BOT
2007-008301	R-CHIP 56.2OHM,1%,1/16W,DA,TP,1005	R260	BOT
2007-008301	R-CHIP 56.2OHM,1%,1/16W,DA,TP,1005	R261	BOT
2007-008301	R-CHIP 56.2OHM,1%,1/16W,DA,TP,1005	R77	BOT
2007-008301	R-CHIP 56.2OHM,1%,1/16W,DA,TP,1005	R79	BOT
2007-008303	R-CHIP 27.4OHM,1%,1/16W,DA,TP,1005	R112	BOT
2007-008303	R-CHIP 27.4OHM,1%,1/16W,DA,TP,1005	R132	BOT
2007-008303	R-CHIP 27.4OHM,1%,1/16W,DA,TP,1005	R133	BOT
2007-008303	R-CHIP 27.4OHM,1%,1/16W,DA,TP,1005	R136	BOT
2007-008303	R-CHIP 27.4OHM,1%,1/16W,DA,TP,1005	R644	TOP
2007-008304	R-CHIP 300KOHM,1%,1/16W,DA,TP,1005	R526	TOP

Item No	품 명	Design LOC	Top/Bottom
2007-008311	R-CHIP 36.5OHM,1%,1/16W,DA,TP,1005	R125	BOT
2007-008311	R-CHIP 36.5OHM,1%,1/16W,DA,TP,1005	R164	BOT
2007-008311	R-CHIP 36.5OHM,1%,1/16W,DA,TP,1005	R195	BOT
2007-008313	R-CHIP 301OHM,1%,1/16W,DA,TP,1005	R130	BOT
2007-008313	R-CHIP 301OHM,1%,1/16W,DA,TP,1005	R151	BOT
2007-008314	R-CHIP 54.9OHM,1%,1/16W,DA,TP,1005	R111	BOT
2007-008314	R-CHIP 54.9OHM,1%,1/16W,DA,TP,1005	R129	BOT
2007-008314	R-CHIP 54.9OHM,1%,1/16W,DA,TP,1005	R153	BOT
2007-008314	R-CHIP 54.9OHM,1%,1/16W,DA,TP,1005	R643	TOP
2007-008330	R-CHIP 22.6OHM,1%,1/16W,DA,TP,1005	R156	BOT
2007-008330	R-CHIP 22.6OHM,1%,1/16W,DA,TP,1005	R157	BOT
2007-008330	R-CHIP 22.6OHM,1%,1/16W,DA,TP,1005	R727	TOP
2007-008331	R-CHIP 1.62KOHM,1%,1/16W,DA,TP,1005	R97	BOT
2007-008332	R-CHIP 11.5KOHM,1%,1/16W,DA,TP,1005	R96	BOT
2007-008550	R-CHIP 549KOHM,1%,1/10W,DA,TP,1608	R21	BOT
2007-008559	R-CHIP 13.3KOHM,1%,1/10W,TP,1608	R25	BOT
2007-008559	R-CHIP 13.3KOHM,1%,1/10W,TP,1608	R502	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR500	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR501	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR502	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR503	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR504	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR505	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR506	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR507	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR508	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR509	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR510	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR511	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR512	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR513	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR514	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR515	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR516	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR517	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR518	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR519	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR520	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	AR521	TOP

Item No	품 명	Design LOC	Top/Bottom
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	RA500	TOP
2011-001264	R-NETWORK 10ohm,5%,1/16W,L,CHIP,8P,TP	RA501	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR522	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR523	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR524	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR525	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR526	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR527	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR528	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR529	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR530	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR531	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR532	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR533	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR534	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR535	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR536	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR537	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR538	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	AR539	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	RA502	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	RA503	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	RA504	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	RA505	TOP
2011-001402	R-NETWORK 56OHM,5%,1/16W,L,CHIP,8P,TP	RA506	TOP
2203-000041	C-CERAMIC,CHIP 0.01NF,0.25PF,50V,C0G,TP,1608	C732	TOP
2203-000041	C-CERAMIC,CHIP 0.01NF,0.25PF,50V,C0G,TP,1608	C913	
2203-000041	C-CERAMIC,CHIP 0.01NF,0.25PF,50V,C0G,TP,1608	C914	
2203-000062	C-CERAMIC,CHIP 47nF,+80-20%,50V,Y5V,TP,1608	C681	TOP
2203-000140	C-CERAMIC,CHIP 1.5nF,10%,50V,X7R,TP,1608,-	C20	BOT
2203-000140	C-CERAMIC,CHIP 1.5nF,10%,50V,X7R,TP,1608,-	C521	TOP
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C11	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C21	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C22	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C34	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C35	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C508	TOP
2203-000233	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1005	C41	BOT
2203-000233	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1005	C534	TOP

Item No	품 명	Design LOC	Top/Bottom
2203-000233	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1005	C917	
2203-000233	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1005	C918	
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C1	BOT
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C10	BOT
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C2	BOT
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C4	BOT
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C505	TOP
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C507	TOP
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C905	
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C906	
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C925	
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C125	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C159	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C316	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C317	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C319	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C326	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C345	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C47	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C562	TOP
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C570	TOP
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C585	TOP
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C586	TOP
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C63	BOT
2203-000254	C-CERAMIC,CHIP 10nF,10%,16V,X7R,TP,1005,-	C709	TOP
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C247	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C293	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C297	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C302	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C622	TOP
2203-000278	C-CERAMIC,CHIP 0.01NF,0.5PF,50V,C0G,TP,1005	C314	BOT
2203-000278	C-CERAMIC,CHIP 0.01NF,0.5PF,50V,C0G,TP,1005	C315	BOT
2203-000278	C-CERAMIC,CHIP 0.01NF,0.5PF,50V,C0G,TP,1005	C644	TOP
2203-000278	C-CERAMIC,CHIP 0.01NF,0.5PF,50V,C0G,TP,1005	C919	
2203-000278	C-CERAMIC,CHIP 0.01NF,0.5PF,50V,C0G,TP,1005	C920	
2203-000298	C-CERAMIC,CHIP 10uF,+80-20%,16V,Y5V,TP,3225,-	C711	TOP
2203-000330	C-CERAMIC,CHIP 0.012NF,5%,50V,C0G,TP,1005	C340	BOT
2203-000330	C-CERAMIC,CHIP 0.012NF,5%,50V,C0G,TP,1005	C342	BOT
2203-000330	C-CERAMIC,CHIP 0.012NF,5%,50V,C0G,TP,1005	C915	

Item No	품 명	Design LOC	Top/Bottom
2203-000330	C-CERAMIC,CHIP 0.012NF,5%,50V,C0G,TP,1005	C916	
2203-000426	C-CERAMIC,CHIP 0.018NF,5%,50V,C0G,TP,1608	C61	BOT
2203-000426	C-CERAMIC,CHIP 0.018NF,5%,50V,C0G,TP,1608	C62	BOT
2203-000426	C-CERAMIC,CHIP 0.018NF,5%,50V,C0G,TP,1608	C643	TOP
2203-000426	C-CERAMIC,CHIP 0.018NF,5%,50V,C0G,TP,1608	C645	TOP
2203-000426	C-CERAMIC,CHIP 0.018NF,5%,50V,C0G,TP,1608	C911	
2203-000426	C-CERAMIC,CHIP 0.018NF,5%,50V,C0G,TP,1608	C912	
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C138	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C248	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C298	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C303	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C321	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C322	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C336	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C337	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C347	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C348	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C349	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C501	TOP
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C503	TOP
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C618	TOP
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C624	TOP
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C678	TOP
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C12	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C3	BOT
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C284	BOT
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C597	TOP
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C680	TOP
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C714	TOP
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C715	TOP
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C716	TOP
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	C301	BOT
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	C32	BOT
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	C613	TOP
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	C647	TOP
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	C7	BOT
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	CT3	BOT
2203-000489	C-CERAMIC,CHIP 2.2nF,10%,50V,X7R,TP,1005,-	C187	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C128	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C130	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C131	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C134	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C49	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C81	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C82	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C83	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C84	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C85	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C86	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C87	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C88	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C89	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C90	BOT
2203-000513	C-CERAMIC,CHIP 2.2uF,+80-20%,16V,Y5V,TP,3225,	C91	BOT
2203-000575	C-CERAMIC,CHIP 220NF,10%,25V,X7R,TP,2012	C246	BOT
2203-000575	C-CERAMIC,CHIP 220NF,10%,25V,X7R,TP,2012	C261	BOT
2203-000575	C-CERAMIC,CHIP 220NF,10%,25V,X7R,TP,2012	C512	TOP
2203-000575	C-CERAMIC,CHIP 220NF,10%,25V,X7R,TP,2012	C617	TOP
2203-000575	C-CERAMIC,CHIP 220NF,10%,25V,X7R,TP,2012	C621	TOP
2203-000575	C-CERAMIC,CHIP 220NF,10%,25V,X7R,TP,2012	C9	BOT
2203-000576	C-CERAMIC,CHIP 220nF,10%,50V,X7R,TP,3216	C14	BOT
2203-000576	C-CERAMIC,CHIP 220nF,10%,50V,X7R,TP,3216	C15	BOT
2203-000585	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1005,-	C182	BOT
2203-000585	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1005,-	C207	BOT
2203-000585	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1005,-	C565	TOP
2203-000585	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1005,-	C566	TOP
2203-000585	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1005,-	C576	TOP
2203-000585	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1005,-	C577	TOP
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C333	BOT
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C334	BOT
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C563	TOP
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C564	TOP
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C578	TOP
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C608	TOP
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C609	TOP
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C923	
2203-000628	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1005	C924	
2203-000654	C-CERAMIC,CHIP 270pF,10%,50V,X7R,TP,1005,-	C320	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-000812	C-CERAMIC,CHIP 0.033NF,5%,50V,C0G,TP,1005	C557	TOP
2203-000812	C-CERAMIC,CHIP 0.033NF,5%,50V,C0G,TP,1005	C558	TOP
2203-000812	C-CERAMIC,CHIP 0.033NF,5%,50V,C0G,TP,1005	C909	
2203-000812	C-CERAMIC,CHIP 0.033NF,5%,50V,C0G,TP,1005	C910	
2203-000885	C-CERAMIC,CHIP 4.7nF,10%,25V,X7R,TP,1005,-	C70	BOT
2203-000938	C-CERAMIC,CHIP 0.47NF,5%,50V,C0G,TP,2012	C500	TOP
2203-000938	C-CERAMIC,CHIP 0.47NF,5%,50V,C0G,TP,2012	C51	BOT
2203-000995	C-CERAMIC,CHIP 0.047NF,5%,50V,C0G,TP,1005	C921	
2203-000995	C-CERAMIC,CHIP 0.047NF,5%,50V,C0G,TP,1005	C922	
2203-001389	C-CERAMIC,CHIP 12nF,10%,50V,X7R,TP,1608,1.6mm	C619	TOP
2203-001397	C-CERAMIC,CHIP 2.2nF,5%,50V,NP0,TP,1608	C523	TOP
2203-001405	C-CERAMIC,CHIP 22nF,+80-20%,25V,Y5V,TP,1005	C179	BOT
2203-001408	C-CERAMIC,CHIP 0.27nF,5%,50V,NP0,TP,1608	C642	TOP
2203-001408	C-CERAMIC,CHIP 0.27nF,5%,50V,NP0,TP,1608	C713	TOP
2203-001432	C-CERAMIC,CHIP 47nF,+80-20%,16V,Y5V,TP,1005	R249	BOT
2203-001598	C-CERAMIC,CHIP 2200nF,+80-20%,16V,Y5V,TP,2012	C180	BOT
2203-001598	C-CERAMIC,CHIP 2200nF,+80-20%,16V,Y5V,TP,2012	C311	BOT
2203-001630	C-CERAMIC,CHIP 330nF,+80-20%,16V,Y5V,TP,1608	C596	TOP
2203-001662	C-CERAMIC,CHIP 5.6NF,10%,50V,X7R,TP,1608	C23	BOT
2203-002443	C-CERAMIC,CHIP 0.33nF,10%,50V,X7R,TP,1005	C533	TOP
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C104	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C107	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C136	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C137	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C140	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C163	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C178	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C181	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C186	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C192	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C203	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C257	BOT
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C502	TOP
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C504	TOP
2203-002720	C-CERAMIC,CHIP 10nF,10%,25V,X7R,TP,1005,-	C520	TOP
2203-005054	C-CERAMIC,CHIP0.00 47nF,0.25pF,50V,NP0,TP,1005	C42	BOT
2203-005054	C-CERAMIC,CHIP0.00 47nF,0.25pF,50V,NP0,TP,1005	C907	
2203-005054	C-CERAMIC,CHIP0.00 47nF,0.25pF,50V,NP0,TP,1005	C908	
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	BC500	TOP

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	BC501	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	BC502	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	BC503	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C102	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C103	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C105	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C108	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C109	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C110	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C111	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C120	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C126	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C127	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C129	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C132	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C133	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C135	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C139	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C141	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C142	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C145	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C146	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C147	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C161	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C162	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C167	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C168	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C169	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C170	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C171	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C172	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C173	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C174	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C175	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C176	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C18	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C184	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C185	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C188	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C189	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C190	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C191	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C193	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C194	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C195	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C196	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C197	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C198	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C199	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C200	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C202	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C204	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C206	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C208	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C209	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C210	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C211	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C212	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C213	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C214	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C215	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C216	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C217	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C218	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C219	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C220	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C221	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C222	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C223	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C224	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C225	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C226	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C227	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C232	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C233	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C234	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C235	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C236	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C238	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C240	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C241	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C25	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C256	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C258	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C259	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C265	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C266	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C267	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C268	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C269	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C270	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C271	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C273	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C274	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C275	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C276	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C277	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C278	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C279	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C280	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C281	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C282	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C283	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C285	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C286	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C287	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C292	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C295	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C296	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C299	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C304	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C305	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C306	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C309	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C312	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C323	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C324	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C325	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C328	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C330	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C331	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C332	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C338	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C341	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C343	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C344	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C519	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C524	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C527	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C53	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C532	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C536	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C537	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C54	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C540	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C544	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C55	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C556	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C560	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C561	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C567	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C57	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C571	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C572	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C573	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C579	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C58	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C582	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C584	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C588	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C59	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C590	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C591	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C593	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C598	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C599	TOP

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C610	TOP
2203-005061	C-CERAMIC,CHIP1 00nF,+80-20%,16V,Y5V,TP,1005	C611	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C623	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C626	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C627	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C628	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C629	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C630	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C631	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C632	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C633	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C634	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C635	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C636	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C637	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C638	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C639	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C640	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C641	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C649	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C650	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C651	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C652	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C653	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C654	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C655	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C656	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C657	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C658	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C659	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C660	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C661	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C662	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C663	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C664	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C665	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C666	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C667	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C668	TOP

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C669	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C670	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C671	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C672	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C673	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C674	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C675	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C676	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C677	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C682	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C683	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C684	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C685	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C686	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C687	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C688	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C689	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C69	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C690	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C691	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C692	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C693	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C694	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C695	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C696	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C697	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C698	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C699	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C700	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C701	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C702	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C703	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C704	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C705	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C706	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C707	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C708	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C719	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C720	TOP

Item No	품 명	Design LOC	Top/Bottom
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C721	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C722	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C725	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C726	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C729	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C731	TOP
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C79	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C92	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C93	BOT
2203-005061	C-CERAMIC,CHIP 100nF,+80-20%,16V,Y5V,TP,1005	C94	BOT
2203-005065	C-CERAMIC,CHIP 1000nF,+80-20%,10V,Y5V,TP,1608	C177	BOT
2203-005065	C-CERAMIC,CHIP 1000nF,+80-20%,10V,Y5V,TP,1608	C335	BOT
2203-005065	C-CERAMIC,CHIP 1000nF,+80-20%,10V,Y5V,TP,1608	C339	BOT
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C19	BOT
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C506	TOP
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C522	TOP
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C614	TOP
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C615	TOP
2203-005194	C-CERAMIC,CHIP 220pF,10%,50V,X7R,TP,1608,-	C329	BOT
2203-005198	C-CERAMIC,CHIP 1uF,10%,10V,X5R,TP,2012,-	C13	BOT
2203-005198	C-CERAMIC,CHIP 1uF,10%,10V,X5R,TP,2012,-	C160	BOT
2203-005198	C-CERAMIC,CHIP 1uF,10%,10V,X5R,TP,2012,-	C262	TOP
2203-005198	C-CERAMIC,CHIP 1uF,10%,10V,X5R,TP,2012,-	C300	BOT
2203-005198	C-CERAMIC,CHIP 1uF,10%,10V,X5R,TP,2012,-	C38	BOT
2203-005198	C-CERAMIC,CHIP 1uF,10%,10V,X5R,TP,2012,-	C679	TOP
2203-005254	C-CERAMIC,CHIP 100nF,20%,50V,X7R,TP,2012,-	C27	BOT
2203-005254	C-CERAMIC,CHIP 100nF,20%,50V,X7R,TP,2012,-	C5	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C39	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C40	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C514	TOP
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C518	TOP
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C56	BOT
2203-005368	C-CERAMIC,CHIP 4700NF,20%,25V,Y5V,TP,3225	C264	BOT
2203-005368	C-CERAMIC,CHIP 4700NF,20%,25V,Y5V,TP,3225	C526	TOP
2203-005371	C-CERAMIC,CHIP 4700NF,+80-20%,25V,Y5V,TP,3225	C528	TOP
2203-005371	C-CERAMIC,CHIP 4700NF,+80-20%,25V,Y5V,TP,3225	C712	TOP
2203-005371	C-CERAMIC,CHIP 4700NF,+80-20%,25V,Y5V,TP,3225	C730	TOP
2203-005371	C-CERAMIC,CHIP 4700NF,+80-20%,25V,Y5V,TP,3225	C733	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C183	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C294	BOT
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C346	BOT
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C552	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C555	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C559	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C569	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C710	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C717	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C718	TOP
2203-005437	C-CERAMIC,CHIP 10000nF,+80-20%,10V,Y5V,TP,3216	C728	TOP
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C100	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C101	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C112	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C113	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C114	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C115	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C116	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C117	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C118	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C119	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C121	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C122	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C123	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C124	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C144	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C151	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C152	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C153	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C154	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C155	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C156	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C157	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C158	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C165	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C166	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C244	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C44	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C45	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C46	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C50	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C553	TOP
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C554	TOP
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C575	TOP
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C64	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C65	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C66	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C67	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C68	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C71	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C72	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C723	TOP
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C73	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C74	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C75	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C76	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C77	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C78	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C80	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C902	
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C95	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C96	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C97	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C98	BOT
2203-005482	C-CERAMIC,CHIP 100nF,10%,10V,X5R,TP,1005,-	C99	BOT
2203-005493	C-CERAMIC,CHIP 220nF,+80-20%,16V,Y5V,TP,1005	C205	BOT
2203-005509	C-CERAMIC,CHIP 330nF,+80-20%,10V,Y5V,TP,1005	C307	BOT
2203-005509	C-CERAMIC,CHIP 330nF,+80-20%,10V,Y5V,TP,1005	C308	BOT
2203-005509	C-CERAMIC,CHIP 330nF,+80-20%,10V,Y5V,TP,1005	C310	BOT
2203-005509	C-CERAMIC,CHIP 330nF,+80-20%,10V,Y5V,TP,1005	C318	BOT
2203-005509	C-CERAMIC,CHIP 330nF,+80-20%,10V,Y5V,TP,1005	C727	BOT
2203-005571	C-CERAMIC,CHIP 10000NF,+80-20%,6.3V,Y5V,TP,2012	C17	BOT
2203-005571	C-CERAMIC,CHIP 10000NF,+80-20%,6.3V,Y5V,TP,2012	C568	TOP
2203-005571	C-CERAMIC,CHIP 10000NF,+80-20%,6.3V,Y5V,TP,2012	C580	TOP
2203-005571	C-CERAMIC,CHIP 10000NF,+80-20%,6.3V,Y5V,TP,2012	C581	TOP
2203-005571	C-CERAMIC,CHIP10000NF,+80-20%,6.3V,Y5V,TP,2012	C587	TOP
2203-005619	C-CERAMIC,CHIP 4700NF,10%,16V,X5R,TP,3216	C260	BOT
2203-005619	C-CERAMIC,CHIP 4700NF,10%,16V,X5R,TP,3216	C291	BOT
2203-005619	C-CERAMIC,CHIP 4700NF,10%,16V,X5R,TP,3216	C513	TOP

Item No	품 명	Design LOC	Top/Bottom
2203-005619	C-CERAMIC,CHIP 4700NF,10%,16V,X5R,TP,3216	C525	TOP
2203-005619	C-CERAMIC,CHIP 4700NF,10%,16V,X5R,TP,3216	C616	TOP
2203-005664	C-CERAMIC,CHIP 4700nF,10%,6.3V,X5R,TP,2012	C16	BOT
2203-005664	C-CERAMIC,CHIP 4700nF,10%,6.3V,X5R,TP,2012	C517	TOP
2203-005898	C-CERAMIC,CHIP 47NF,+80%,-20%,50V,Y5V,TP,1005	C201	BOT
2203-005898	C-CERAMIC,CHIP 47NF,+80%,-20%,50V,Y5V,TP,1005	C48	BOT
2203-005898	C-CERAMIC,CHIP 47NF,+80%,-20%,50V,Y5V,TP,1005	C531	TOP
2203-006001	C-CERAMIC,CHIP 0.1NF,5%,3KV,NPO,TP,4520	C903	
2203-006001	C-CERAMIC,CHIP 0.1NF,5%,3KV,NPO,TP,4520	C904	
2203-006039	C-CERAMIC,CHIP 1NF,10%,2KV,X7R,TP,3216	C530	TOP
2203-006039	C-CERAMIC,CHIP 1NF,10%,2KV,X7R,TP,3216	C60	BOT
2203-006093	C-CERAMIC,CHIP 1000NF,+80-20%,6.3V,Y5V,TP,1005	C106	BOT
2203-006093	C-CERAMIC,CHIP 1000NF,+80-20%,6.3V,Y5V,TP,1005	C724	TOP
2402-001125	C-POLYMER AL CHIP15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C26	BOT
2402-001125	C-POLYMER AL CHIP15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C28	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C29	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C30	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C31	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C313	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C33	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C36	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C37	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C515	TOP
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C516	TOP
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C620	TOP
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C648	TOP
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C8	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C148	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C150	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C164	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C272	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C52	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C535	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C546	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C547	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C548	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C549	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C550	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C551	TOP

Item No	품 명	Design LOC	Top/Bottom
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C6	BOT
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C612	TOP
2402-001168	C-POLYMER AL CHIP 330UF,20%,2.5V,WT,TP,7.3X4.3X1.8MM	C646	TOP
2402-001169	C-POLYMER AL CHIP 220UF,20%,4V,WT,TP,7.3X4.3X1.8MM	C143	BOT
2402-001169	C-POLYMER AL CHIP 220UF,20%,4V,WT,TP,7.3X4.3X1.8MM	C149	BOT
2402-001169	C-POLYMER AL CHIP 220UF,20%,4V,WT,TP,7.3X4.3X1.8MM	C289	BOT
2402-001169	C-POLYMER AL CHIP 220UF,20%,4V,WT,TP,7.3X4.3X1.8MM	C290	BOT
2402-001170	C-POLYMER AL CHIP 150UF,20%,6V,WT,TP,7.3X4.3X1.8MM	C574	TOP
2402-001170	C-POLYMER AL CHIP 150UF,20%,6V,WT,TP,7.3X4.3X1.8MM	C583	TOP
2404-000148	C-TA,CHIP 1uF,10%,20V,-,TP,3216,-	CT1	BOT
2404-000148	C-TA,CHIP 1uF,10%,20V,-,TP,3216,-	CT503	TOP
2404-000148	C-TA,CHIP 1uF,10%,20V,-,TP,3216,-	CT504	TOP
2404-000284	C-TA,CHIP 10uF,20%,16V,-,TP,3528,-	C245	BOT
2404-000284	C-TA,CHIP 10uF,20%,16V,-,TP,3528,-	C625	TOP
2404-000284	C-TA,CHIP 10uF,20%,16V,-,TP,3528,-	CT502	TOP
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C237	BOT
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C239	BOT
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C24	BOT
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C288	BOT
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C529	TOP
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C589	TOP
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	C603	TOP
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	CT500	TOP
2404-001020	C-TA,CHIP 10uF,20%,10V,GP,TP,3216,3.2	CT501	TOP
2404-001074	C-TA,CHIP 10uF,10%,10V,GP,TP,3216,-	C43	BOT
2404-001074	C-TA,CHIP 10uF,10%,10V,GP,TP,3216,-	CT2	BOT
2404-001074	C-TA,CHIP 10uF,10%,10V,GP,TP,3216,-	CT4	BOT
2404-001075	C-TA,CHIP 100UF,20%,16V,GP,TP,7343	C600	TOP
2404-001266	C-TA,CHIP 47UF,20%,10V,-,TP,3528	CT505	TOP
2603-000065	TRANS-MATCHING	LT1	TOP
2703-002085	INDUCTOR-SMD 10uH,30%,10x10.1x3.8mm	L501	TOP
2703-002137	INDUCTOR-SMD 4.6uH,20%,12.5x12.5x3.5mm	L3	BOT
2703-002249	INDUCTOR-SMD 0.5UH,+-15%,12.9X13.2X3.5MM	L503	TOP
2703-002249	INDUCTOR-SMD 0.5UH,+-15%,12.9X13.2X3.5MM	L504	TOP
2703-002354	INDUCTOR-SMD 2.0UH,20%,5.0X5.0X3.0MM	L2	BOT
2703-002355	INDUCTOR-SMD 4.7UH,20%,6.3X6.0X3.0MM	L505	TOP
2703-002357	INDUCTOR-SMD 10UH,20%,5.0X5.0X2.0MM	L509	TOP
2703-002390	INDUCTOR-SMD 220NH,10%,2.00X1.25X1.00MM	L506	TOP
2703-002478	INDUCTOR-SMD 4.7UH,20%,7.3X6.8X3.2MM	L500	TOP

Item No	품 명	Design LOC	Top/Bottom
2703-002478	INDUCTOR-SMD 4.7UH,20%,7.3X6.8X3.2MM	L502	TOP
2703-002478	INDUCTOR-SMD 4.7UH,20%,7.3X6.8X3.2MM	L507	TOP
2703-002478	INDUCTOR-SMD 4.7UH,20%,7.3X6.8X3.2MM	L508	TOP
2801-000111	CRYSTAL-SMD 32.768KHz,20ppm,28-AAW,20pF,50	Y503	TOP
2801-003840	CRYSTAL-SMD 27MHz,50ppm,28-ACC,16pF,50ohm,TP	XTAL1	TOP
2801-003898	CRYSTAL-SMD 24.576MHz,50ppm,28-ACC,12pF,50ohm,TP	XTAL2	TOP
2801-004200	CRYSTAL-SMD 10MHZ,50PPM,28-ACF,16.0PF,80OHM,TP	Y502	TOP
2801-004201	CRYSTAL-SMD 14.31818MHZ,50PPM,-,15.0PF,50OHM,REEL	Y501	TOP
2801-004202	CRYSTAL-SMD 24.576MHZ,30PPM,28-ACF,12.0PF,50OHM,TP	Y1	TOP
2801-004203	CRYSTAL-SMD 25MHZ,30PPM,-,15.0PF,50OHM,TP	Y500	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B1	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B500	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B501	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B502	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B505	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B506	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B507	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B508	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B509	TOP
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B513	TOP
3301-000322	CORE-FERRITE BEADAB,31OHM,3.2X1.6X1.1MM,-,TP,FERRITE,-	B5	BOT
3301-000322	CORE-FERRITE BEADAB,31OHM,3.2X1.6X1.1MM,-,TP,FERRITE,-	B510	TOP
3301-000322	CORE-FERRITE BEADAB,31OHM,3.2X1.6X1.1MM,-,TP,FERRITE,-	B6	BOT
3301-000326	CORE-FERRITE BEADAB,60OHM,3.2X2.5X1.3MM, 400MA,-25TO+85C,FERRITE,30KOHM	B511	TOP
3301-001101	CORE-FERRITE BEADAB,600ohm,2x1.25x0.85mm,200mA,TP, FERRITE,0.3ohm	B4	BOT
3301-001101	CORE-FERRITE BEADAB,600ohm,2x1.25x0.85mm,200mA,TP, FERRITE,0.3ohm	B512	TOP

Item No	품 명	Design LOC	Top/Bottom
3301-001434	CORE-FERRITE BEADAB,27ohm,1.6x0.8x0.8mm,4000mA,TP,-, 0.006ohm	B2	BOT
3301-001434	CORE-FERRITE BEADAB,27ohm,1.6x0.8x0.8mm,4000mA,TP,-, 0.006ohm	B3	BOT
3301-001434	CORE-FERRITE BEADAB,27ohm,1.6x0.8x0.8mm,4000mA,TP,-, 0.006ohm	B514	TOP
3301-001569	CORE-FERRITE BEADAB,600OHM,2.0X1.25X0.9MM,1000MA,TP, NI-CU-ZN,0.1OHM	B503	TOP
3301-001569	CORE-FERRITE BEADAB,600OHM,2.0X1.25X0.9MM,1000MA,TP, NI-CU-ZN,0.1OHM	B504	TOP
3301-001594	CORE-FERRITE BEADAB,90OHM,2.0X1.2X1.3MM,200MA,TP,-, 0.19OHM	B515	TOP
3407-000183	SWITCH-DIP24V,25mA,SLIDE,STANDARD	SW500	TOP
3701-001279	CONNECTOR-DSUB 15P,3R,FEMALE,STRAIGHT,AU	J506	TOP
3704-001176	SOCKET-IC200P,DIMM,AUF,-	J7	BOT
3704-001177	SOCKET-IC200P,DIMM,AUF,-	J5	BOT
3708-001507	CONNECTOR-FPC/FFC/PIC 24P,1mm,SMD-A,SN	KBD500	TOP
3708-001824	CONNECTOR-FPC/FFC/PIC8P,0.5mm,SMD-A,SN	J515	TOP
3709-001124	CONNECTOR-CARD EDGE124P,0.8MM,SMD-A,AUF	J3	BOT
3709-001239	CONNECTOR-CARD EDGE68P,1.27MM,ANGLE,AU	J512	TOP
3710-001669	CONNECTOR-SOCKET 20P,2R,0.5mm,SMD-A,SN	J502	TOP
3710-001763	CONNECTOR-SOCKET 30P,2R,0.8MM,SMD-S,AU	J2	BOT
3710-001764	CONNECTOR-SOCKET 50P,2R,0.5MM,SMD-S,AU	J510	TOP
3710-001764	CONNECTOR-SOCKET 50P,2R,0.5MM,SMD-S,AU	J6	BOT
3710-001883	CONNECTOR-SOCKET 22P,2R,0.8MM,SMD-S,AU,-	J505	TOP
3710-001883	CONNECTOR-SOCKET 22P,2R,0.8MM,SMD-S,AU,-	J509	TOP
3710-001911	CONNECTOR-SOCKET 47P,2R,1.27MM,ANGLE,AU	J501	TOP
3711-000541	CONNECTOR-HEADER BOX,2P,1R,1.25MM,SMD-A,SN,NTR	J1	BOT
3711-000541	CONNECTOR-HEADER BOX,2P,1R,1.25MM,SMD-A,SN,NTR	J513	TOP
3711-000862	CONNECTOR-HEADER BOX,3P,1R,1.25mm,SMD-A,SN	J504	TOP
3711-003688	CONNECTOR-HEADER 3WALL,8P,1R,1.25mm,SMD-S,SN	J516	TOP
3711-004865	CONNECTOR-HEADERNOWALL,68P,2R,1.27MM,SMD-A,AUF,NTR	J511	TOP
3711-005163	CONNECTOR-HEADER 1WALL,5P,1R,2.5MM,-,AU,-	J500	TOP
3711-005297	CONNECTOR-HEADER BOX,10P,1R,0.45MM,BLK,AU,-	J514	TOP
3722-001524	JACK-USB 4P,-,AUF,BLK,-	J508	TOP
3722-001732	JACK-IEEE 13944P,-,AU30U,-,-	J517	TOP
3722-001929	JACK-MODULAR 12P/10C/2POST,STANDARD,NO,SMD-A,-,NO, BLUE,AU	J503	TOP
BA27-00018A	COIL CHOKEPLW3216S161SQ2,160OHM AT 100MHZ,-	LT501	TOP

Item No	품 명	Design LOC	Top/Bottom
	3.2X1.6X1.9MM,0.4OHM MAX,3.2X1.6X1.9MM		
BA27-00018A	COIL CHOKEPLW3216S161SQ2,160OHM AT 100MHZ,-,	LT502	TOP
	3.2X1.6X1.9MM,0.4OHM MAX,3.2X1.6X1.9MM		
BA41-00316A	PCB-MAINAQUILLA,PCB,10L,1.0,1.1T,226.57X186.79X1.1MM,-,-,-,	MAIN PCB	
	MAIN PCB		
BA68-40005L	LABEL-BARCODECOMPUTER,40X6,WHT,PBAB/D	SMT LABEL	
BA68-40012N	LABEL-LOCATIONTRUK2,ART PAPER,-,-,7.13X7.13,	SMT LABEL	
BA92-01945A	ASSY AUDIO BX10,AUDIO BOARD,-,-	AUDIO B'	
0406-001084	DIODE-TVSSMF05,6/-/-V,200W,-	D517	TOP
0406-001084	DIODE-TVSSMF05,6/-/-V,200W,-	D518	TOP
1009-001010	IC-HALL EFFECT S/WA3212ELH-SAMSUNG,SC-59A,3P,82MIL,TP,	U400	BOT
	BICMOS,PLASTIC,3.5V,2MA,340K		
1201-001125	IC-OP AMP75S01,SOP,5P,63MIL,SINGLE,100d	U401	BOT
1201-001489	IC-AUDIOAMP4882,SOP,8P,6V,250MW,-40TO+85C,5	U402	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R402	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R404	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R409	BOT
2007-000078	R-CHIP 1Kohm,5%,1/16W,DA,TP,1608	R408	BOT
2007-000093	R-CHIP 20Kohm,5%,1/16W,DA,TP,1608	R403	BOT
2007-000094	R-CHIP 22Kohm,5%,1/16W,DA,TP,1608	R901	
2007-000124	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1608	R400	BOT
2007-000124	R-CHIP 2.2Kohm,5%,1/16W,DA,TP,1608	R401	BOT
2007-000134	R-CHIP 33Kohm,5%,1/16W,DA,TP,1608	R900	
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R411	BOT
2007-000140	R-CHIP 1Kohm,5%,1/16W,DA,TP,1005	R413	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R407	BOT
2007-001010	R-CHIP 51KOHM,5%,1/16W,DA,TP,1608	R406	BOT
2007-001303	R-CHIP 110OHM,5%,1/16W,DA,TP,1005	R410	BOT
2007-001303	R-CHIP 110OHM,5%,1/16W,DA,TP,1005	R412	BOT
2007-001325	R-CHIP 3.3Kohm,5%,1/16W,DA,TP,1005	R405	BOT
2203-000178	C-CERAMIC,CHIP 100nF,+80-20%,25V,Y5V,TP,1608,	C419	BOT
2203-000189	C-CERAMIC,CHIP 100nF,+80-20%,25V,Y5V,TP,1608,	C400	BOT
2203-000189	C-CERAMIC,CHIP 100nF,+80-20%,25V,Y5V,TP,1608,	C411	BOT
2203-000189	C-CERAMIC,CHIP 100nF,+80-20%,25V,Y5V,TP,1608,	C416	BOT
2203-000189	C-CERAMIC,CHIP 100nF,+80-20%,25V,Y5V,TP,1608,	C900	
2203-000189	C-CERAMIC,CHIP 100nF,+80-20%,25V,Y5V,TP,1608,	C901	
2203-000298	C-CERAMIC,CHIP 10uF,+80-20%,16V,Y5V,TP,3225,-	C418	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C409	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C413	BOT

Item No	품 명	Design LOC	Top/Bottom
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C414	BOT
2203-000438	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1005,-	C415	BOT
2203-000444	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,2012,-	C402	BOT
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C407	BOT
2203-000476	C-CERAMIC,CHIP 1000nF,+80-20%,16V,Y5V,TP,2012	C408	BOT
2203-000483	C-CERAMIC,CHIP 1000nF,+80-20%,25V,Y5V,TP,3216	C403	BOT
2203-001630	C-CERAMIC,CHIP 330nF,+80-20%,16V,Y5V,TP,1608	C401	BOT
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C404	BOT
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C406	BOT
2402-001127	C-AL,SMD220UF,20%,6.3V,-,TP,7343	C417	BOT
2402-001127	C-AL,SMD220UF,20%,6.3V,-,TP,7343	CT400	BOT
2404-000122	C-TA,CHIP10uF,20%,16V,-,TP,3826,1.95mm	C405	BOT
2404-000122	C-TA,CHIP10uF,20%,16V,-,TP,3826,1.95mm	C412	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B400	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B401	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B402	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B403	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B404	BOT
3711-002127	CONNECTOR-HEADERBOX,8P,1R,1.25MM,SMD-A,SN	J902	TOP
3722-001191	JACK-PHONE	J900	BOT
3722-001191	JACK-PHONE	J901	BOT
BA96-01768A	ASSY BIOS	BIOS	TOP
1107-001288	IC-FLASH MEMORY	U506	TOP
BA46-02004A	BIOS	BIOS F/W	
BA68-40012N	LABEL-LOCATION	LABEL	
BA96-01769A	ASSY S/W-MICOM	MICOM	
0903-001231	IC-MICROCOMPUTER	U513	
BA46-02432A	S/W MICOM	MICOM F/W	
BA68-40012N	LABEL-LOCATION	LABEL	
BA99-00100D	ASSY SUB/MATERIAL-NP_SMT	SUB MATERAL	
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D1	BOT
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D2	BOT
0402-001405	DIODE-RECTIFIERB340A,40,3A,SMA,TP	D4	BOT
0404-000157	DIODE-SCHOTTKYCMPSH-3A,30V,100mA,SOT-23,TP	D6	BOT

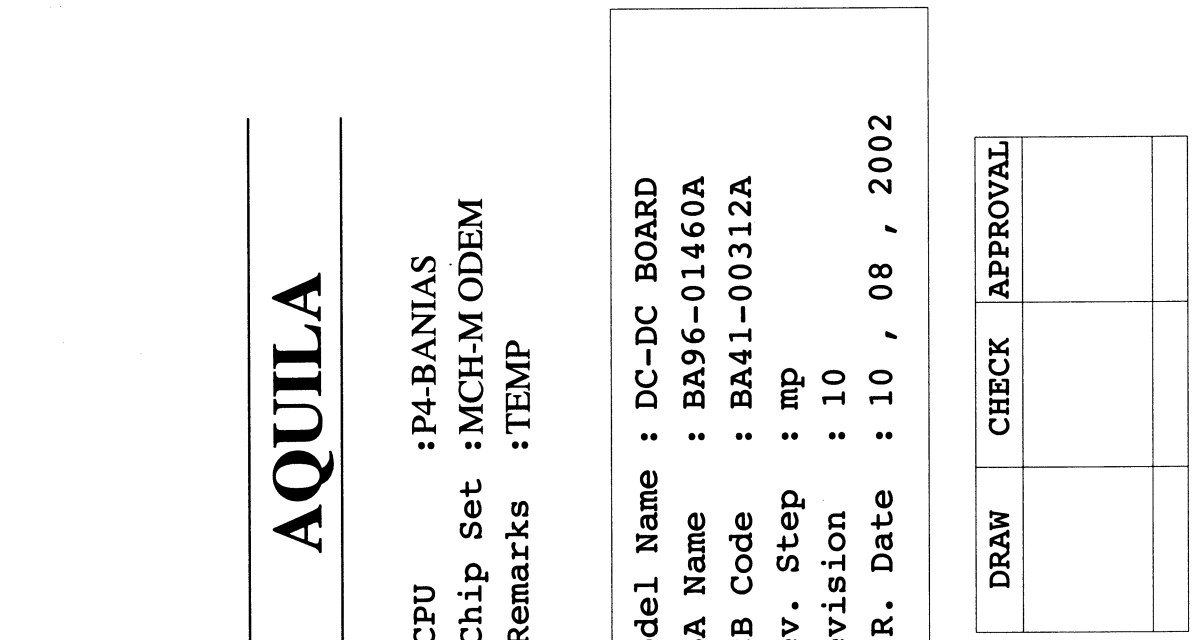
Item No	품 명	Design LOC	Top/Bottom
0406-001141	DIODE-TVSPGB0010603NR,1000V,EIA-RS481	D7	BOT
0406-001141	DIODE-TVSPGB0010603NR,1000V,EIA-RS481	D8	BOT
0407-000112	DIODE-ARRAY BAV70,70V,200MA,CA2-3,SOT-23,TP	D5	BOT
0504-000127	TR-DIGITAL KSR1102,NPN,200MW,10K/10K,SOT-23,TP	Q8	BOT
0504-000127	TR-DIGITAL KSR1102,NPN,200MW,10K/10K,SOT-23,TP	Q9	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q1	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q10	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q11	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q2	BOT
0505-000110	FET-SILICON 2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q3	BOT
0505-000275	FET-SILICON SI4435DY,P,-30V,+-8.0A,0.014ohm,2.5W,SO-8	U2	BOT
0505-001056	FET-SILICON IRF7205,P,-30V,-4.6A,0.070ohm,	Q12	BOT
0505-001386	FET-SILICON FDS6680A,N,30V,12.5A,0.0095ohm,2.5W,SO-8	Q4	BOT
0505-001386	FET-SILICON FDS6680A,N,30V,12.5A,0.0095ohm,2.5W,SO-8	Q5	BOT
0505-001386	FET-SILICON FDS6680A,N,30V,12.5A,0.0095ohm,2.5W,SO-8	Q6	BOT
0505-001386	FET-SILICON FDS6680A,N,30V,12.5A,0.0095ohm,2.5W,SO-8	Q7	BOT
1203-002518	IC-SWITCH REG. LTC3728EG,SSOP,28P,208MIL,PLASTIC, 3.25/3.45V	U1	BOT
1404-001065	THERMISTOR-PTC0.11OHM,13.2VAC,40A,1.5A	TH1	BOT
2007-000029	R-CHIP 0OHM,5%,1/10W,DA,TP,2012	R22	BOT
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R1	BOT
2007-000052	R-CHIP 10Kohm,1%,1/16W,DA,TP,1608	R29	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R28	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R32	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R39	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R40	BOT
2007-000060	R-CHIP 100Kohm,1%,1/16W,DA,TP,1608	R41	BOT
2007-000063	R-CHIP 150Kohm,1%,1/16W,DA,TP,1608	R8	BOT
2007-000066	R-CHIP 20Kohm,1%,1/16W,DA,TP,1608	R37	BOT
2007-000067	R-CHIP 15Kohm,1%,1/16W,DA,TP,1608	R26	BOT
2007-000067	R-CHIP 15Kohm,1%,1/16W,DA,TP,1608	R27	BOT
2007-000070	R-CHIP 0ohm,5%,1/16W,DA,TP,1608	R35	BOT
2007-000171	R-CHIP 0ohm,5%,1/16W,DA,TP,1005	R31	BOT
2007-000308	R-CHIP 10OHM,5%,1/10W,DA,TP,2012	R16	BOT
2007-000475	R-CHIP 1Mohm,1%,1/16W,DA,TP,1608	R10	BOT
2007-000475	R-CHIP 1Mohm,1%,1/16W,DA,TP,1608	R11	BOT
2007-000633	R-CHIP 270Kohm,1%,1/16W,DA,TP,1608	R25	BOT
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R17	BOT
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R18	BOT

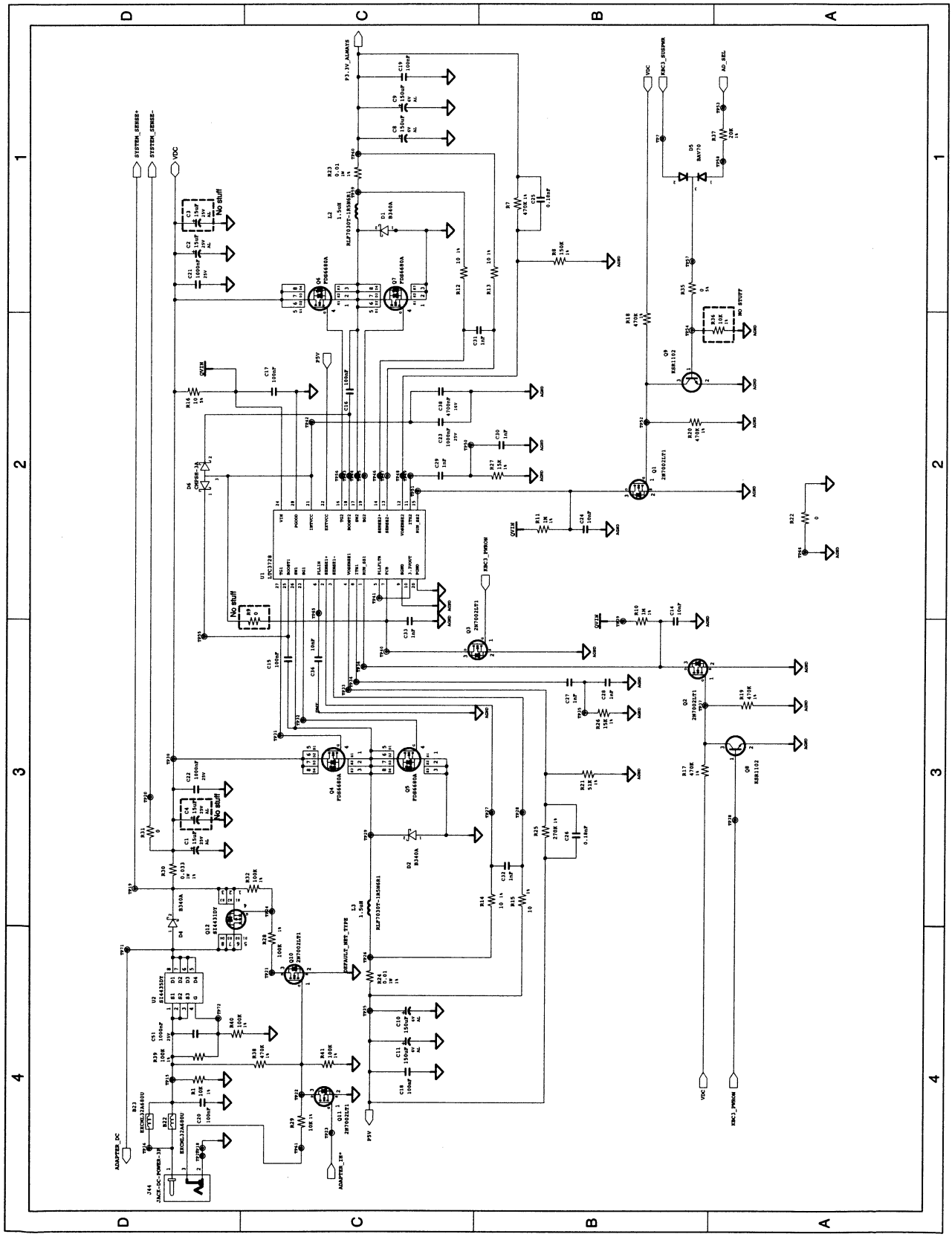
Item No	품 명	Design LOC	Top/Bottom
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R19	BOT
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R20	BOT
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R38	BOT
2007-000923	R-CHIP 470Kohm,1%,1/16W,DA,TP,1608	R7	BOT
2007-001007	R-CHIP 51Kohm,1%,1/16W,DA,TP,1608	R21	BOT
2007-001280	R-CHIP 0.033ohm,1%,1W,DA,TP,6432	R30	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R12	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R13	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R14	BOT
2007-002899	R-CHIP 10ohm,1%,1/16W,DA,TP,1608	R15	BOT
2007-007009	R-CHIP 75OHM,5%,1/16W,DA,TP,1005	R33	BOT
2007-007009	R-CHI 75OHM,5%,1/16W,DA,TP,1005	R34	BOT
2007-007241	R-CHIP 0.01ohm,1%,1W,DA,TP,6432	R23	BOT
2007-007241	R-CHIP 0.01ohm,1%,1W,DA,TP,6432	R24	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C15	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C16	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C17	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C18	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C19	BOT
2203-000206	C-CERAMIC,CHIP 100nF,10%,50V,X7R,TP,2012	C20	BOT
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C48	BOT
2203-000236	C-CERAMIC,CHIP 0.1NF,5%,50V,C0G,TP,1608	C50	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C14	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C24	BOT
2203-000257	C-CERAMIC,CHIP 10nF,10%,50V,X7R,TP,1608	C36	BOT
2203-000405	C-CERAMIC,CHIP 0.18NF,5%,50V,C0G,TP,1608	C25	BOT
2203-000405	C-CERAMIC,CHIP 0.18NF,5%,50V,C0G,TP,1608	C26	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C27	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C28	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C29	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C30	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C31	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C32	BOT
2203-000440	C-CERAMIC,CHIP 1nF,10%,50V,X7R,TP,1608,-	C33	BOT
2203-000626	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1608	C39	BOT
2203-000626	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1608	C40	BOT
2203-000626	C-CERAMIC,CHIP 0.022NF,5%,50V,C0G,TP,1608	C49	BOT
2203-001408	C-CERAMIC,CHIP 0.27nF,5%,50V,NP0,TP,1608	C42	BOT
2203-001408	C-CERAMIC,CHIP 0.27nF,5%,50V,NP0,TP,1608	C43	BOT

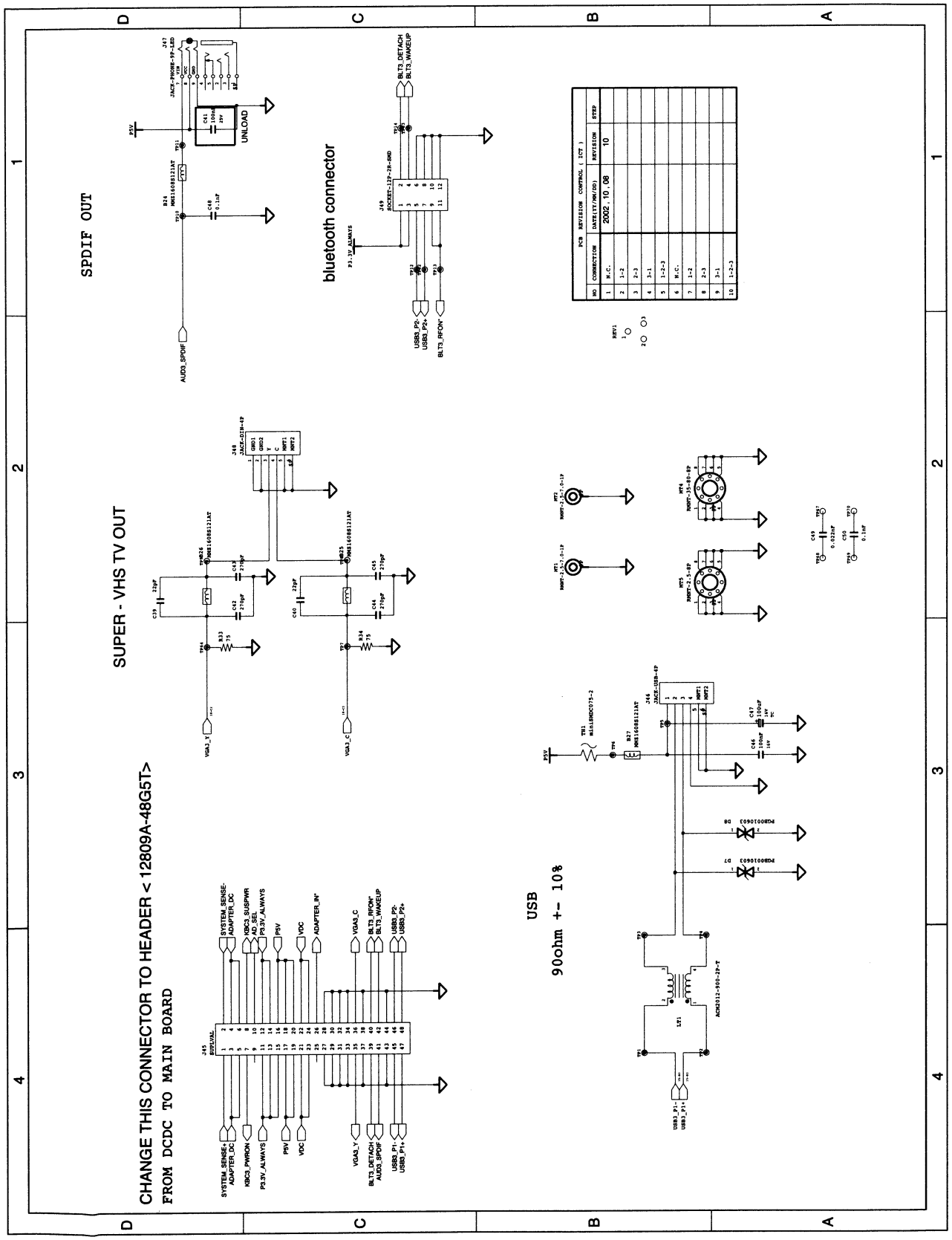
Item No	품 명	Design LOC	Top/Bottom
2203-001408	C-CERAMIC,CHIP 0.27nF,5%,50V,NP0,TP,1608	C44	BOT
2203-001408	C-CERAMIC,CHIP 0.27nF,5%,50V,NP0,TP,1608	C45	BOT
2203-005148	C-CERAMIC,CHIP 100nF,10%,16V,X7R,TP,1608,-	C46	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C21	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C22	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C23	BOT
2203-005261	C-CERAMIC,CHIP 1000nF,10%,25V,X7R,TP,3216	C51	BOT
2203-005619	C-CERAMIC,CHIP 4700NF,10%,16V,X5R,TP,3216	C38	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C1	BOT
2402-001125	C-POLYMER AL CHIP 15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C2	BOT
2402-001170	C-POLYMER AL CHIP 150UF,20%,6V,WT,TP,7.3X4.3X1.8MM	C10	BOT
2402-001170	C-POLYMER AL CHIP 150UF,20%,6V,WT,TP,7.3X4.3X1.8MM	C11	BOT
2402-001170	C-POLYMER AL CHIP 150UF,20%,6V,WT,TP,7.3X4.3X1.8MM	C8	BOT
2402-001170	C-POLYMER AL CHIP 150UF,20%,6V,WT,TP,7.3X4.3X1.8MM	C9	BOT
2404-001075	C-TA,CHIP 100UF,20%,16V,GP,TP,7343	C47	BOT
2703-002475	INDUCTOR-SMD 1.5UH,30%,7.3X6.8X3.2MM	L2	BOT
2703-002475	INDUCTOR-SMD 1.5UH,30%,7.3X6.8X3.2MM	L3	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B24	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B25	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B26	BOT
3301-000314	CORE-FERRITE BEADAB,120ohm,1.6x0.8x0.8mm,150mA,TP, FERRITE,0.2ohm	B27	BOT
3301-001162	CORE-FERRITE BEADAB,68ohm,3.2x1.6x0.9mm,3000mA,TP, FERRITE,0.012ohm	B22	BOT
3301-001162	CORE-FERRITE BEADAB,68ohm,3.2x1.6x0.9mm,3000mA,TP, FERRITE,0.012ohm	B23	BOT
3301-001594	CORE-FERRITE BEADAB,90OHM,2.0X1.2X1.3MM,200MA,TP,-, 0.19OHM	LT1	BOT
3710-001703	CONNECTOR-SOCKET 12P,2R,2MM,SMD-S,AU10U	J49	BOT
3711-005282	CONNECTOR-HEADER NOWALL,47P,2R,1.27MM,ANGLE,AUF,BLK	J45	BOT
3722-001175	JACK-DC POWER 3P,5.9PI,SN,BLK	J44	BOT
3722-001524	JACK-USB 4P,-,AUF,BLK,-	J46	BOT
3722-001691	JACK-PHONE 10P,3.6PI,AU,ORN,-	J47	BOT
3722-001808	JACK-DIN 4P,-,SN,BLK,-	J48	BOT

7-2 DC/DC Board

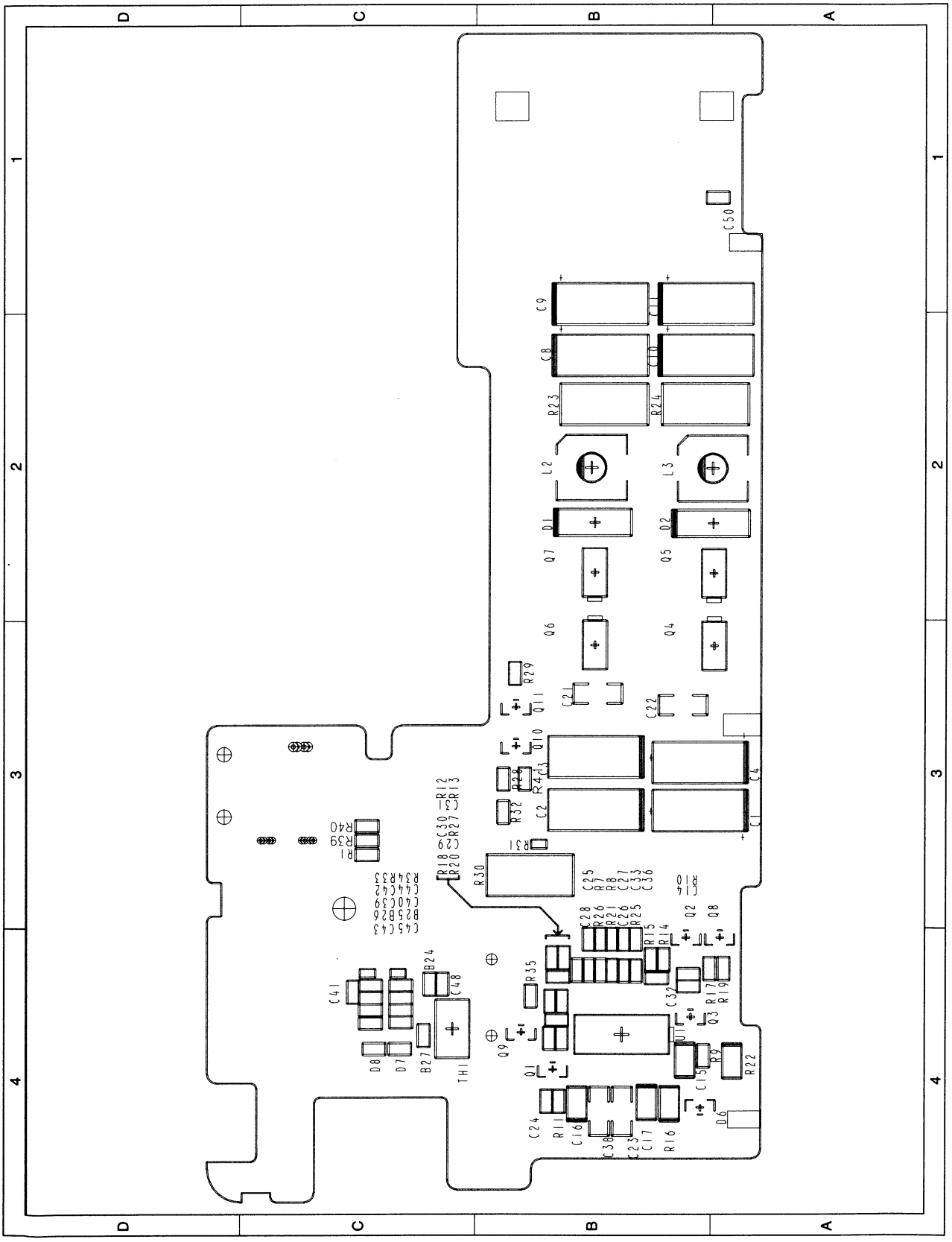
7-2-1 Schematic Diagrams

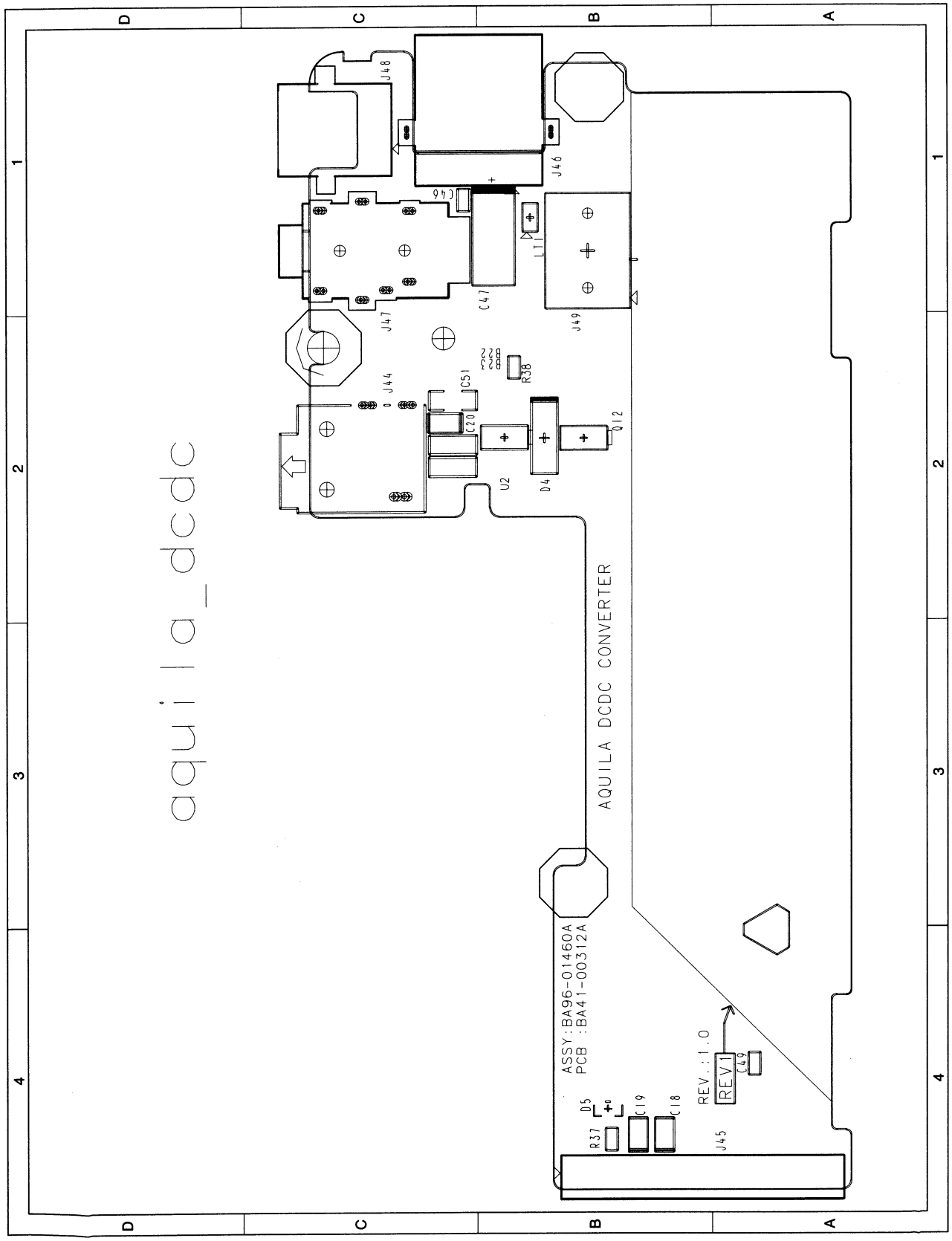





SPDIF OUT
UNLOAD
bluetooth connector
SUPER - VHS TV OUT
CHANGE THIS CONNECTOR TO HEADER < 12809A-48G5T>
FROM DCDC TO MAIN BOARD
USB
90ohm +- 10%
PCB REVISION CONTROL (ICT)
NO CONNECTION DATE(YY/MM/DD) REVISION STEP
1 N.C. 2002.10.08 10
2 1-2
3 2-3
4 3-1
5 1-2-3
6 N.C.
7 1-2
8 2-3
9 3-1
10 1-2-3

7-2-2 PCB SilkScreen




aquila_dcdc
AQUILA DCDC CONVERTER
ASSY : BA96-01460A
PCB : BA41-00312A
REV : 1.0
REV1
J48
J46
J47
J49
J44
J45
C46
C47
C51
C20
C49
C19
C18
R38
R37
D5
D4
D12
U2
L1

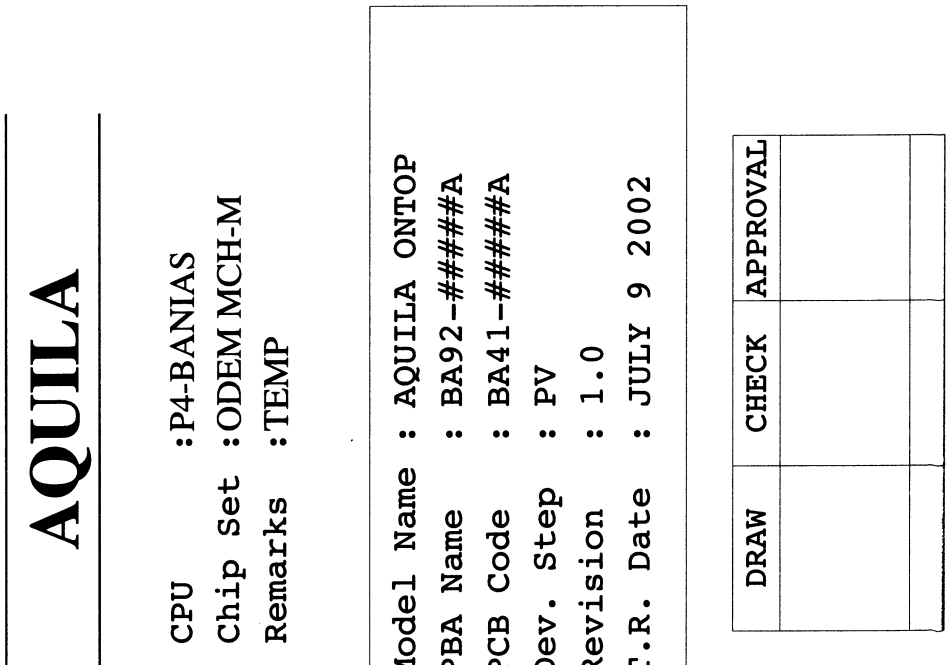
7-2-3 Parts List

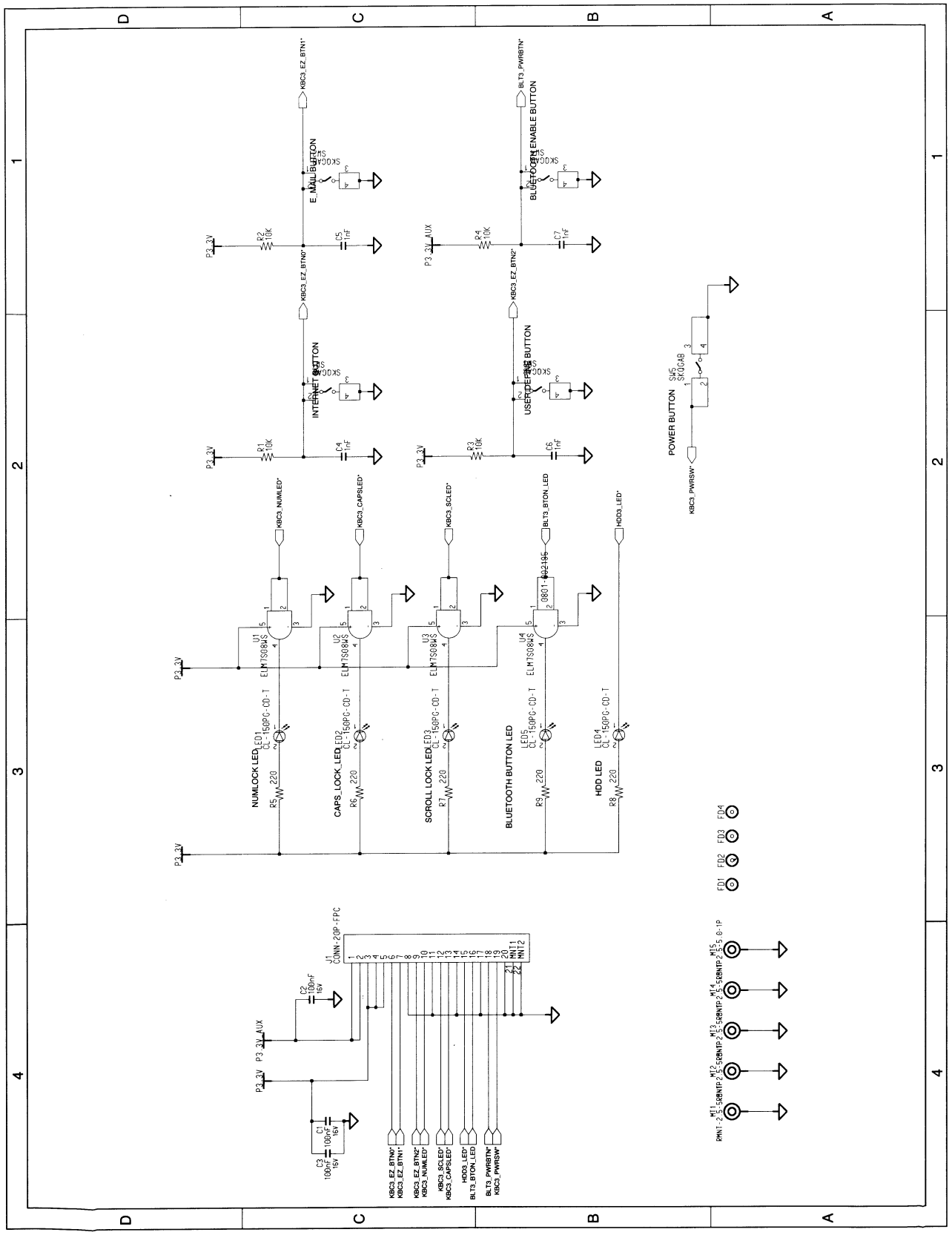
PART NO.	DESCRIPTION	REFERENCE	COUNT
0402-001405	sdiode, DIODE-RECTIFIER;B340A,40,3A,SMA,TP	D1 D2 D4	3
0404-000157	sdiode2_2k, DIODE-SCHOTTKY;CMPSH-3A,30V,100mA,SOT-23,TP	D6	1
0406-001141	esd, DIODE-TVS;PGB0010603NR,-/-/1000V,-,EIA-R	D7 D8	2
0407-000112	diode2_2a, DIODE-ARRAY;BAV70,70V,200MA,CA2-3,SOT-23,TP	D5	1
0504-000127	npn_tr, TR-DIGITAL;KSR1102,NPN,200MW,10K/10K,SOT-23,TP	Q8 Q9	2
0505-000110	nmos_fet, FET-SILICON;2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	Q1 Q2 Q3 Q10 Q11	5
0505-000275	si4435dy, FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.014ohm,2.5W,	U2	1
0505-001056	pmos_fet_3s_4d, FET-SILICON;IRF7205,P,-30V,-4.6A,0.070ohm,	Q12	1
0505-001386	nmos_fet_3s_4d, FET-SILICON;FDS6680A,N,30V,12.5A,0.0095ohm,2.5W,S	Q4 Q5 Q6 Q7	4
1203-002518	ltc3728, IC-SWITCH REG.;LTC3728EG,SSOP,28P,208MIL,PLASTIC,	U1	1
3711-005282	head-48z-2r, CONNECTOR-HEADER;48P,2R,1.27mm,STRAIGHT	J45	1
1404-001065	therm_fuse, THERMISTOR-PTC;0.11OHM,-,-,13.2VAC,40A,1.5A,TP	TH1	1
2007-000029	res, R-CHIP;0OHM,5%,1/10W,DA,TP,2012	R22	1
2007-000052	res_t, R-CHIP;10Kohm,1%,1/16W,DA,TP,1608	R1 R29	2
2007-000060	res_t, R-CHIP;100Kohm,1%,1/16W,DA,TP,1608	R28 R32 R39 R40 R41	5
2007-000063	res_t, R-CHIP;150Kohm,1%,1/16W,DA,TP,1608	R8	1
2007-000066	res_t, R-CHIP;20Kohm,1%,1/16W,DA,TP,1608	R37	1
2007-000067	res_t, R-CHIP;15Kohm,1%,1/16W,DA,TP,1608	R26 R27	2
2007-000070	res, R-CHIP;0ohm,5%,1/16W,DA,TP,1608	R35	2
2007-000171	res, R-CHIP;0ohm,5%,1/16W,DA,TP,1005	R31	1
2007-000308	res, R-CHIP;10OHM,5%,1/10W,DA,TP,2012	R16	1
2007-000475	res_t, R-CHIP;1Mohm,1%,1/16W,DA,TP,1608	R10 R11	2
2007-000633	res_t, R-CHIP;270Kohm,1%,1/16W,DA,TP,1608	R25	1
2007-000923	res_t, R-CHIP;470Kohm,1%,1/16W,DA,TP,1608	R7 R17 R18 R19 R20 R38	6
2007-001007	res_t, R-CHIP;51Kohm,1%,1/16W,DA,TP,1608	R21	1
2007-001280	res_pt, R-CHIP;0.033ohm,1%,1W,DA,TP,6432	R30	1
2007-002899	res_t, R-CHIP;10ohm,1%,1/16W,DA,TP,1608	R12 R13 R14 R15	4
2007-007009	res, R-CHIP;75OHM,5%,1/16W,DA,TP,1005	R33 R34	2
2007-007241	res_pt, R-CHIP;0.01ohm,1%,1W,DA,TP,6432	R23 R24	2
2203-000206	ccap, C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	C15 C16 C17 C18 C19 C20	6
2203-000236	ccap, C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	C48 C50	2
2203-000257	ccap, C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	C14 C24 C36	3
2203-000405	ccap, C-CERAMIC,CHIP;0.18nF,5%,50V,NP0,TP,1608	C25 C26	2
2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	C27 C28 C29 C30 C31 C32 C33	7
2203-000626	ccap, C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,1608	C39 C40 C49	3

PART NO.	DESCRIPTION	REFERENCE	COUNT
2203-001408	ccap, C-CERAMIC,CHIP;0.27nF,5%,50V,NP0,TP,1608	C42 C43 C44 C45	4
2203-005148	ccap_v, C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608,-	C46	1
2203-005261	ccap_v, C-CERAMIC,CHIP;1000nF,10%,25V,X7R,TP,3216	C21 C22 C23 C51	4
2203-005619	ccap_v, C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,3216	C38	1
2402-001125	ecap, C-POLYMER AL CHIP;15UF,20%,25V,-,TP,7.3X4.3X1.9MM	C1 C2	4
2402-001170	ecap, C-POLYMER AL CHIP;150UF,20%,6V,WT,TP,7.3*4.3*1.8M	C8 C9 C10 C11	4
2404-001075	tantal, C-TA,CHIP;100UF,20%,16V,GP,TP,7343	C47	1
2703-002475	inductor, INDUCTOR-SMD;1.5UH,30%,7.3X6.8X3.2MM	L2 L3	2
3301-000314	bead_core, CORE-FERRITE BEAD;AB,120ohm,1.6x0.8x0.8mm,150mA,T	B24 B25 B26 B27	4
3301-001162	bead_core, CORE-FERRITE BEAD;AB,68ohm,3.2x1.6x0.9mm,3000mA,T	B22 B23	2
3301-001594	bead_core, CORE-FERRITE BEAD;AB,900HM,2.0X1.2X1.3MM,200MA,T	LT1	1
3710-001703	sock-12z-2r-smd, CONNECTOR-SOCKET;12P,2R,2MM,SMD-S,AU10U	J49	1
3722-001175	jack-dc-power-3p, JACK-DC POWER;3P,5.9PI,SN,BLK	J44	1
3722-001524	jack-usb-4p-mnt, JACK-USB;4P,-,AUF,BLK,-	J46	1
3722-001691	jack-phone-9p-led, JACK-PHONE;10P,3.6PI,AU,ORN,-	J47	1
3722-001808	jack-din-4p-mnt2, JACK-DIN;4P,-,SN,BLK,-	J48	1
BA41-00312A	PCB		1
BA62-00194A	INSULATOR		1
3711-005282	head-48z-2r, CONNECTOR-HEADER;48P,2R,1.27mm,STRAIGHT	J45	1
2703-002475	inductor, INDUCTOR-SMD;1.5UH,30%,7.3X6.8X3.2MM	L2 L3	2
3722-001524	jack-usb-4p-mnt, JACK-USB;4P,-,AUF,BLK,-	J46	1
3722-001691	jack-phone-9p-led, JACK-PHONE;10P,3.6PI,AU,ORN,-	J47	1

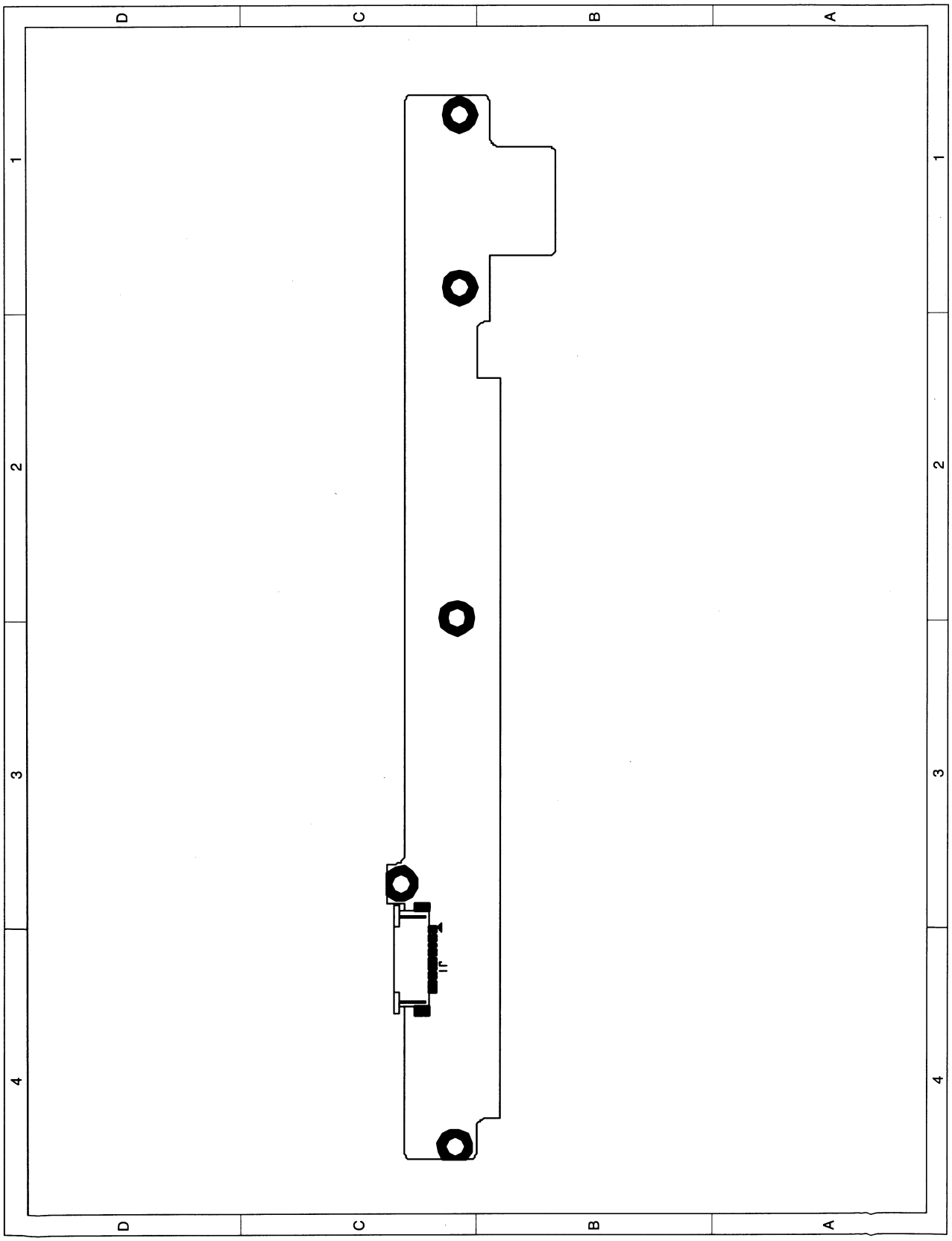
7-3 On-Top Board

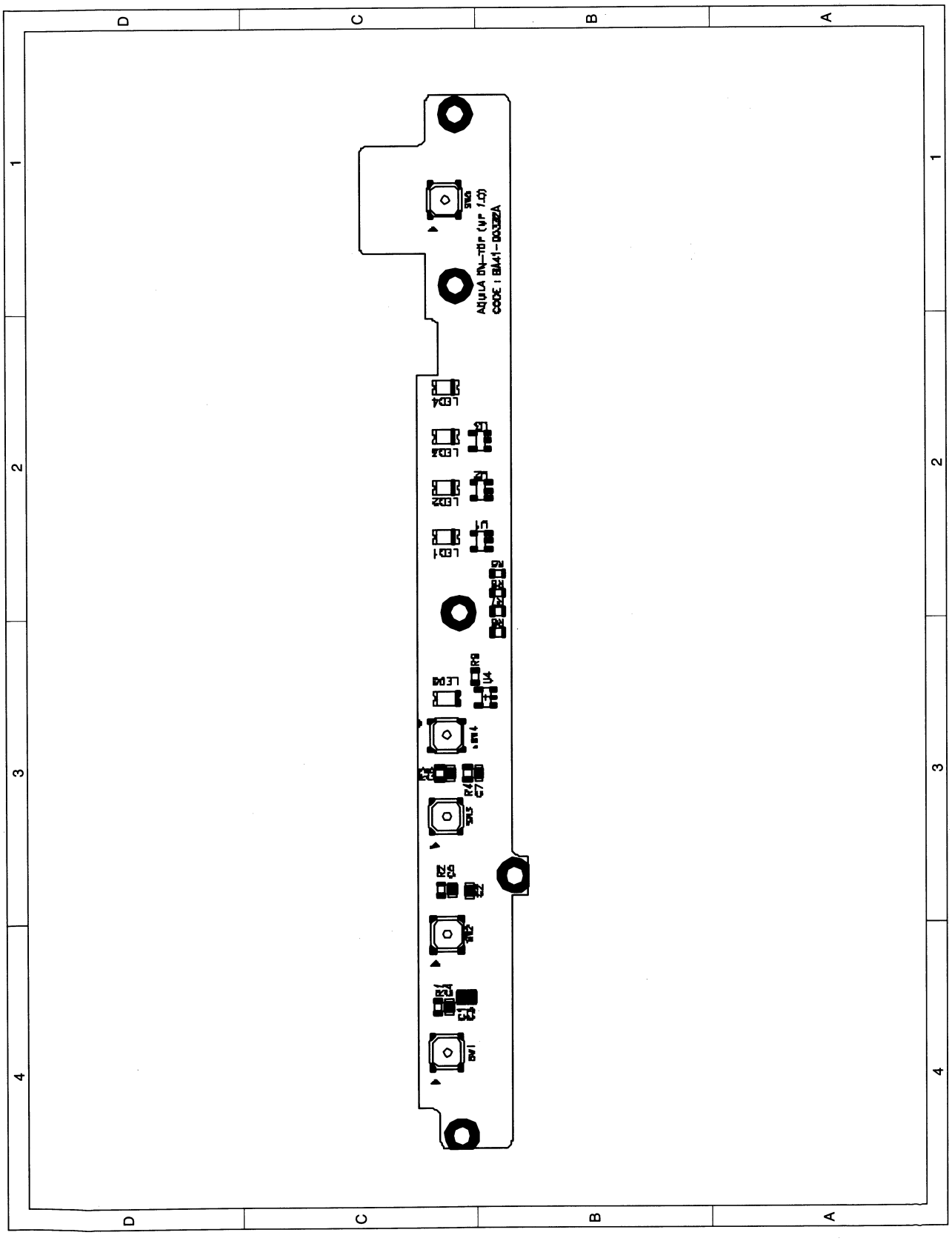
7-3-1 Schematic Diagrams




E_MAIL BUTTON
BLUETOOTH ENABLE BUTTON
INTERNET BUTTON
USER DEFINE BUTTON
POWER BUTTON
NUMLOCK LED
CAPS_LOCK_LED
SCROLL LOCK LED
BLUETOOTH BUTTON LED
HDD LED
P3_3V
P3_3V_AUX
KBC3_EZ_BTN1*
KBC3_EZ_BTN2*
KBC3_PWRSW*
KBC3_NUMLED*
KBC3_CAPSLED*
KBC3_SCLED*
HDD3_LED*
BLT3_PWRBTN*
BLT3_BTON_LED

7-3-2 PCB SilkScreen




D
C
B
A
1
2
3
4
AGUJA DN-TOP (VF 1.0)
CODE : BA41-00332A